

ANDREW M. CUOMO Governor

HOWARD A. ZUCKER, M.D., J.D. Commissioner

SALLY DRESLIN, M.S., R.N. Executive Deputy Commissioner

December 28, 2015

Carmine F. Vasile 60 Herbert Circle Patchogue, NY 11772

FOIL #: 15-09-420

Dear Dr. Vasile:

This letter responds to your Freedom of Information Law request of September 27,2015, in which you requested "reports, and related site reports covering classified programs in Calverton, Great River & Calverton": New York State Site Registry Delisting Petition, Headquarters Complex, Bethpage, New York Grumman Aerospace Corporation; final decommissioning report and NRC or DOE license(s). I have enclosed documents responsive to your request. Please note that the radioactive materials license was terminated many years ago and those records are no longer maintained by the Department

Should you feel that you have been unlawfully denied access to records, you may appeal such denial in writing within 30 days to the Records Access Appeals Officer, Division of Legal Affairs, Empire State Plaza, 2438 Corning Tower, Albany, New York, 12237-0026.

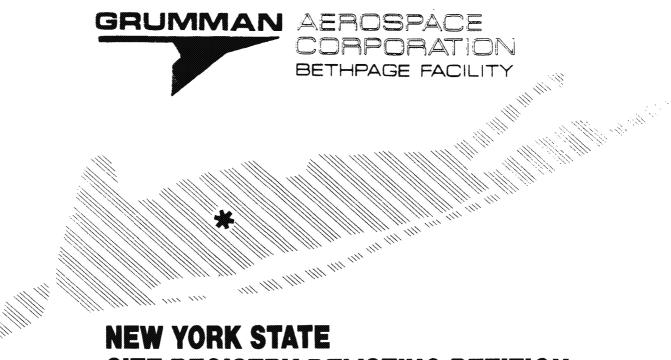
If you require additional information or wish to discuss this matter further, please do not hesitate to contact me at (518) 474-8734.

Sincerely,

Canull Lipedayou Danielle L. Rysedorph, Esq.

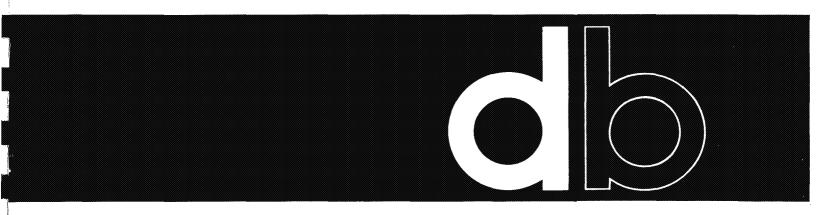
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NEW YORK STATE SITE REGISTRY DELISTING PETITION HEADQUARTERS COMPLEX BETHPAGE, NEW YORK

GRUMMAN AEROSPACE CORPORATION BETHPAGE, NEW YORK



Dvirka and Bartilucci

Consulting Engineers

MARCH 1995



Grumman Aerospace Corporation

Bethpage, New York 11714-3582

March 13, 1995

Langdon Marsh, Commissioner New York State Department of Environmental Conservation 50 Wolf Road Albany, NY 12233-7010

Re:

New York State Site Registry Delisting Petition Headquarters Complex, Bethpage, New York

Dear Mr. Marsh:

I am pleased to submit for your review three copies of the enclosed document, entitled "New York State Site Registry Delisting Petition, Headquarters Complex, Bethpage, New York," for the Grumman Aerospace Corporation property located off Stewart Avenue in Bethpage, New York.

The report, prepared by our consultants, Dvirka and Bartilucci Consulting Engineers, documents the past and present use of the site based on a review of available records, along with a narrative review of chronological aerial photographs of the area from 1950 through 1988. In addition, a presentation of groundwater sampling results is provided with a comparison to appropriate standards.

The information presented in this report will assist the New York State Department of Environmental Conservation (NYSDEC) in determining the nature of the use of the site over the past 40 years and to evaluate the merits of the delisting petition. Based on the review of available information and the environmental data, we believe that the property is eligible for removal from the NYSDEC Site Registry of Inactive Hazardous Waste Disposal Sites, and as such, an appropriate modification to the boundaries of Site 1-30-003 A is warranted.

If you have any comments and/or questions regarding this matter, do not hesitate to contact me at (516) 575-2385.

Very truly yours,

John Ohlmann, P.E.

J. Ofelmann

Director, Corporate Environmental Protection

JO/ss Enclosure

cc: w/encl.: Robert Marino (NYSDEC)

♠1167/JO03135.dec

GRUMMAN AEROSPACE CORPORATION

NEW YORK STATE SITE REGISTRY DELISTING PETITION HEADQUARTERS COMPLEX BETHPAGE, NEW YORK

PREPARED BY DVIRKA AND BARTILUCCI CONSULTING ENGINEERS SYOSSET, NEW YORK

MARCH 1995

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GRUMMAN AEROSPACE CORPORATION

NEW YORK STATE SITE REGISTRY DELISTING PETITION HEADQUARTERS COMPLEX BETHPAGE, NEW YORK

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1.0 INTRODUCTION

Grumman Aerospace Corporation has directed the preparation of this report as part of an effort to satisfy the requirements for delisting the Headquarters Complex, hereafter referred to as "the site," from the New York State Site Registry of Inactive Hazardous Waste Disposal Sites (Site Code 1-30-003A). The site is located southeast of the intersection of South Oyster Bay Road and Stewart Avenue in Bethpage, New York. Information presented in this report has been compiled based upon site inspections completed on July 13, 1994 and July 14, 1994; an evaluation of available aerial photographs (1950-1988); various files and records obtained from the Grumman Aerospace Corporation, Paumanock Development Corporation, the Nassau County Department of Health (NCDOH) and the Town of Oyster Bay; along with interviews of various Grumman personnel. The purpose of this report is to determine and document the historical use of the site and the surrounding areas.

Section 2 of this document presents an evaluation of the history, present use and existing conditions at the site, and the likelihood of potential adverse impacts from the federal Superfund site known as Hooker Chemical/Ruco Polymer. Section 3 presents an evaluation of analytical sampling data to characterize groundwater quality in the vicinity of the site. The findings and conclusions of the site assessment are presented in Section 4.

A location map is included in Appendix A, a current "Site Plan" is included in Appendix B, and aerial photographs of the site from 1950 through 1988 have been included in Appendix C. In addition, relevant documentation obtained through file searches at Grumman Aerospace Corporation, the NCDOH and the Town of Oyster Bay is included in Appendix D.

Correspondence from the New York State Department of Environmental Conservation (NYSDEC) to Grumman Aerospace Corporation provided a list of the "Delisting Petition Information" required for the Grumman properties. In order to facilitate the review of this document, the 14 items requested in the NYSDEC correspondence are listed on Table 1-1 with an appropriate response, or a cross reference to the location of such response in this document. The information supplied in this document is of sufficient detail to enable the NYSDEC to determine the nature of the site's past and present operations, and assess the potential for any on-site contamination.

1-1

Table 1-1

DELISTING PETITION INFORMATION

	Requirement	Response
1.	Site Name	Grumman, Bethpage
	Owner	Grumman Aerospace Corporation
2.	Site Number	1-30-003A
3.	Site Location	Southeast of South Oyster Bay Road and Stewart Avenue Intersection Bethpage, Nassau County, NY 11714
4.	Size	Approximately 70 Acres
5.	Boundaries	See Appendices A, B and C
6.	Nature of Operation	See Sections 2.1 and 2.2
	Hazardous Waste Disposal	See Section 4
7.	History of Site	See Section 2.1
8.	History of Site Investigations	See Section 2.1
9.	Waste	See Section 2.2
10.	Affected Resources	See Sections 2.2, 3 and 4
11.	Demographic Information	See Section 2.2
12.	Geographic Information	See Section 2.2
13.	Cleanup Actions	See Section 4
14.	Basis for Delisting	See Section 4

2.0 SITE EVALUATION

Location: Southeast of South Oyster Bay Road and Stewart Avenue Intersection.

Bethpage, New York 11714

Section: 46 Land Use(s): Administration/Office/Test

and R&D Labs/Flight Simulation Areas

Block:

G

Plot Size:

Approx. 70 acres

Lots:

29, 47, 49, 54, 59

Grumman-Owned Bldgs.: 14, 26, 31 and 111

Zoning:

Industrial H

Approx. Bldg. Area:

Plant 14:

165,000 square feet

Plant 26:

61,000 square feet

Plant 31: Plant 111:

60,000 square feet 142,000 square feet

Total:

428,000 square feet

2.1 **Site History**

As indicated by a review of the earliest available aerial photograph of the site taken in 1950 (see Appendix C), the site appeared to be occupied by active agricultural land in the northwestern corner of the site while wooded areas occupied the remainder of the site. By 1955 the agricultural-related activities at the site appear to have been phased out. The remainder of the site remained wooded. In 1957 most of the site was still occupied by open fields and wooded areas except for the southwestern corner adjacent to South Oyster Bay Road which was apparently being cleared for construction of a new road. Between 1957 and 1962, Plant 14 was built in the southwestern corner of the site adjacent to South Oyster Bay Road. Parking areas were located to the south of Plant 14. The remainder of the site consisted of open fields and wooded areas.

Between 1962 and 1969, Plant 14 was extended to the east with additional paved parking spaces both east and west of the building. Plants 26 and 31 were constructed in the southeastern corner of the site with paved parking areas and roadways for vehicular traffic. Recharge basins were also constructed to the south of Plants 26 and 31 in the southeastern corner of the site. The remaining northern portion of the site was still composed of open fields.

Between 1969 and 1972, Plant 111 was built in the northeastern corner of the site along Stewart Avenue. Paved parking areas were constructed to the east, west and south of Plant 111 along with access roadways. The northwestern corner of the site, along Stewart Avenue adjacent to the athletic fields along South Oyster Bay Road, was the only open field section remaining on the site. No other changes were evident on the aerial photographs reviewed during this period. Between 1971 and 1988 Plant 111 was expanded to the south and west. Although this construction replaced existing parking areas, additional parking areas were constructed to the west of Plant 111. During this period, Plants 14, 26 and 31 were all expanded with additional parking areas included. In addition, the recharge basins in the southeastern corner of the site were filled in and covered by additional paved parking areas and a realigned roadway. Based on a review of Grumman files and interviews with Grumman representatives, these flows were rerouted to recharge basins located further to the south adjacent to Plant 3.

Based upon a review of available information, dates of Grumman occupancy for the plants are as follows:

- Plant 14 (early 1960's)
- Plant 26 (1963)
- Plant 31 (1965)
- Plant 111 (1970)

According to Nassau County property record cards, it appears that Grumman ownership of the lots occupied by Plants 14, 26, 31 and 111 dates back to the 1940s.

Based upon a review of available information and interviews with Grumman personnel, Plant 14 was originally built in the early 1960's, with additions constructed in 1981 ("Prom building"), and the mid-1980's (E2/C and ESP building additions). Plant 14 comprises approximately 165,000 square feet and currently houses offices, computer areas, flight simulation areas, radar development labs, hydraulics labs, test rooms, and prototype metal fabrication areas. Additional information on the current use of Plant 14 is presented in Section 2.2.

Based upon a review of available information, Plant 26 was constructed in 1963. It has historically been utilized as the Corporate Research Center Laboratories and comprises approximately 61,000 square feet. The plant currently contains offices, computer rooms, photo processing labs, electronic test equipment, mechanical testing areas, and areas for metallographic

polishing, thermal analysis, x-ray diffraction, nuclear studies, assembly and fabrication, semiconductor preparation, high temperature processing, chemical physics and scanning microscopy. Additional information on the present use of Plant 26 is presented in Section 2.2.

Based upon a review of available information, Plant 31 was constructed in 1965 and comprises approximately 60,000 square feet. The plant currently contains: hanger-type areas, machine shops, equipment rooms, thermal chambers, various test rooms, and a stock room. Additional information on the present use of Plant 31 is presented in Section 2.2.

Based upon a review of available information and interviews with Grumman personnel, Plant 111 was constructed in 1970 with new additions constructed in 1986. Historically, Plant 111 has been utilized predominantly for office space. The building comprises approximately 142,000 square feet and contains office areas, computer rooms, a training center, classrooms, vending areas, storage rooms, and a facility shop. Additional information on the present use of Plant 111 is presented in Section 2.2.

Several on-site independent sanitary disposal systems were utilized prior to connection to the Nassau County sewer system. A review of Grumman utility maps and construction drawings indicated the following:

- Plant 14
 - 15 "filled" leaching pools to the north of Plant 14
 - 2 leaching pools to the north of trailer
- Plant 26
 - 1 distribution box and 2 leaching pools to the west of Plant 26 (noted as disconnected)
- Plant 31
 - 1 septic tank, 1 distribution box and 6 leaching pools to the south of Plant 31
- Plant 111
 - Sanitary waste previously discharged to a Grumman owned and operated activated sludge sanitary treatment facility ("Sewage Treatment Plant D") to the south of Plant 111

A 1982 application for a RCRA Part B permit (Vol. 1) prepared by Dvirka and Bartilucci Consulting Engineers for Grumman Aerospace Corporation detailed how hazardous waste

generated from plant operations was collected and stored on-site prior to its disposal. In general, collection stations were established in close proximity to the points of waste generation. Collection drums were identified with a label indicating the type of waste to be placed in each. Once filled, the drums were closed, labeled and dated, and moved to either a mini marshaling area, or to the Main Marshaling area for storage prior to disposal. A map prepared and submitted with the permit indicated that both Plants 14 and 26 had a waste collection station located outside the building. Plants 31 and 111 did not have collection stations, and mini-marshaling stations were not identified within the Headquarters complex area. The Main Marshaling area was located south of the Headquarters Complex. The permit indicates that Plant 14's collection station allowed for the temporary accumulation of waste halogenated solvents, while Plant 26 accumulated waste halogenated and non-halogenated solvents.

Based upon a review of a Remedial Investigation (RI) Report prepared by Geraghty & Miller in 1994, soil-gas sampling was conducted in 1991 and 1992 with a portable gas chromatograph at various locations throughout the Bethpage facility to identify areas that might require further soil and/or groundwater investigation. One soil-gas sampling point was located in the vicinity of Plant 14 (SG-9). Volatile organic compounds were not detected in soil gas sample SG-9. Soil-gas sampling was not performed in the vicinity of Plants 26, 31 or 111.

2.2 General Site Description

The headquarters complex is composed of Plants 14, 26, 31 and 111. According to Town of Oyster Bay tax records, Plant 111 is currently owned by the Paumanock Development Corporation while the other plants are owned by Grumman Aerospace Corporation. All of the plants have oil heat, public water and are connected to the Nassau County sewer system. The entire site is zoned Industrial H and comprises approximately 70 acres. The site is bound on the north by high density residential development and by industrial development to the east, south and west.

Plant 14 is a three story building with a basement, and is composed of four main areas (original section, "Prom" building, E2/C and ESP sections). The original section of Plant 14 is a one story structure which was built, according to Grumman personnel, in the 1960's and includes the following areas:

- Outside Hydraulic Fluid Pump Room (controls "motion base" inside building for flight simulation)
 - hydraulic pumps
 - 55 gallon drum of waste oil
 - 55 gallon drum of hydraulic oil
 - cooling tower
- Anechoic Chamber
 - sound proof area (coned walls/floors/ceiling)
- Antenna and Radar Development Lab
 - computer areas (electronics testing)
- Fixed Base Simulator Room
 - flight dome simulator (not in use)
- Low Frequency Radar Lab
 - computer areas (electronics testing)
 - tabletop touch-up soldering areas
 - antifreeze for a transmitter cooling system
- Shipping and Receiving Area (loading dock)
- Integrated Logics System (ILS) CASS Lab
 - avionics equipment integration
 - Test Cell #1 contains:
 - Test stand drives
 - nitrogen use to simulate atmospheric pressure on aircraft
 - electronics testing
- Office Areas/Conference Rooms
- ILS Prototype Lab
 - benchtop electronic testing areas, circuit board manufacture and repair
 - small drill presses, vices
- Flammable chemical storage cabinets (small quantities of: soldering flux, thinner, epoxy, paint, loctite, adhesive, varsol, isopropanol, primer, freon, toluene, ferricchloride, developer, acetone and hydrochloric acid)
- Vending Area

- Thermodynamics Lab
 - nitrogen cylinders (gas pressure tests, liquid coolant)
 - helium
 - ammonia (working fluid in heat pipes)
 - argon for welder
 - benchtop computer areas
 - manufacture of thermal control devices (working fluid: 2 methyl-pentane, methyl alcohol, freon)
 - loading bay
 - drill press
 - ethylene glycol (coolant)
 - slop sinks
 - chemical cabinet (small quantities of: methanol, isopropanol, acetone, ammonia, 1,1,1-trichloroethane, silicone spray, ethyl alcohol, benzene and mineral oil)
- Loading Bays with catch basin
- Electromechanical Test Area
 - F14 flight control simulator (hydraulically controlled)
 - grounded drum storage area (mineral spirits, waste oil, cutting oil, varsol and hydraulic fluid)
 - "oily waste cans" for rags
- Hydraulics Lab
- Small Mechanical Shop Area
 - lathes
 - drill press
 - ultrasonic cleaner (drains to 55 gallon drum)
- Pump Room (hydraulic fluid)
 - side walls trenched with alarms for hydraulic oil
- Compound Repair Room
 - benchtop work stations
 - chemical cabinet (small quantities of: jet engine oil, paints, rag can)
- Compound Test Room
 - flow test benches

- Mechanical Test Room
 - flow test benches
 - small paint spray area with hood
- Stock Room
 - miscellaneous parts storage, paints, cleaners, solder flux, glue, oils and dichlorodifluoromethane
- Prototype Metal Fabrication Room
 - machine shop
 - drill presses
 - band saws
 - lathes
 - vices
 - chemical storage cabinet (small quantities of: paint removers, alodine, methylene chloride, isoproplyene, adhesives, thinners, paints and oils)
- 8,000 psi Simulator Room
 - miscellaneous parts storage
 - chemical storage cabinet (small quantities of: machine oil, adhesive, varsol and paint)
 - pump test room
- Outside 90 Day Drum Storage Area
 - waste storage (Type 1)
 - waste storage (Type 4)
 - metal scrap bins
 - liquid nitrogen tank (Tank # 38)
 - inert gas cylinder storage
 - nitrogen
 - argon
 - helium
 - CO₂
 - fuel gas cylinders
 - hydrogen
 - acetylene
 - liquid petroleum
 - ammonia
- Miscellaneous Parts Storage Shed (copper tubing)

Another main area of Plant 14 is the "Prom" building, an addition completed in April 1981, according to Town of Oyster Bay records. The proposed use of the "Prom" building was for a computer lab and office space. A copy of the building permit shows that permission was granted for installation of one dry well, one distribution box and one septic tank. The plumbing included two floor drains. Grumman personnel indicated that the "Prom" building is comprised solely of offices on the east side and labs on the west side.

The three story E2/C and ESP portions of Plant 14 were constructed in the mid 1980's. In the E2/C building, they develop E2/C software (printed circuit board repair/cleaning, benchtop soldering). The building contains computer rooms, slop sinks and a loading bay area with chemical storage cabinets (paint, alcohol and lubricating oil). Other portions of the E2/C building include the following:

- Maintenance Department
- Boiler Room
 - grinder, band saw
 - loading bay
 - condensate floor drain

According to interviews with Grumman personnel and a review of floor plans, the ESP building portion of Plant 14 has labs, restricted areas, flight simulators, SSDL computer labs (no chemical usage), offices, computer areas and an equipment room.

It should be noted that two existing, inactive, double walled underground storage tanks are located at Plant 14 (14-03 and 14-04) for the storage of photo chemicals, however, no past or present photo processing areas were identified on-site. It should also be noted that an approved 1993 application for the installation of a 300 gallon aboveground tank was noted on file at NCDOH for the storage of wastewater containing trace amounts of acetone and ferric chlorides, however, the existence of this tank was not identified.

According to Grumman personnel, Plant 26 has housed the Corporate Research Center Laboratories since its construction in 1963. Plant 26 includes the following areas:

Administrative Offices

- Lab Area
 - lab hoods
 - room previously used as a dark room (1987-1992)
 - current use involves utilization of "sol-gels" (silicone based chemical), titanium dioxide, and ammodium hydroxides
- Vacant Labs
- Electronic Test Equipment
 - nitrogen cylinders
 - cleaning solvents (acetone, methyl alcohol)
- Computer Room
- Photoprocessing Labs
 - dark room (small quantities of: methanol, propylene, ethylene glycol, fixer, nalgene)
 - slop sink
 - computer work station
- Service Chase
 - condensate floor drain
- High Temperature Processing
- Chemical Physics
- Materials/Crystal Growth
- Semiconductor Preparation
 - high speed saw
 - slop sink
 - lab hood
 - chemical storage cabinet (small quantities of: trichloroethene, methanol, methylene chloride, bromine)
- Mechanical Testing
- Secured Areas
- Boiler Room
 - 3 boilers (#2 oil)
 - floor drains (condensate)
 - drummed oil
 - oil/water separator (overflow to floor drain)
- Materials Room
 - varsol, DTE oil, acetone
 - slop sink

- Nuclear Research Area
- Metallographic polishing (sewer discharge)
- Heat Treatment
- Scanning Microscopy
- X-ray Diffraction
- Thermal Analysis
- Dark Room (fixers and developers)
- 90 day Storage Building (with secondary containment)
 - containment area (concrete bottom)
 - chemical product storage (isopropyl alcohol, methanol, acetone, freon, cutting fluid)
 - waste storage (Types 1, 2 and 4)
- Vending Area
- Equipment Storage Room
- Assembly and Fabrication Shop
 - machine shop (drill presses, band saws, lathes, etc.)
 - stockroom (miscellaneous parts, paints and adhesives)
 - receiving area (temporary storage)
 - floor drain
 - primer, thinning oil, freon, Afta cleaning fluid, ammonia, paints, dichlorodifluromethane
- Shop Area
 - chemical storage cabinet (small quantities of: paints, brake fluid, methylene chloride, machine oil, alcohol, trichloroethane, utility fluid, paint thinner, DTE oil, paint spray booth hood and slop sinks)
- Magnetic/Optical Characterization
- Electro Optical Devices
- Thin Film Device Fabrication
- Lab Area
 - hood with slop sink
 - spray adhesive
 - small quantities of: trichloroethane, methanol and acetone

- Semiconductor Characterization
- Computer Rooms

Plant 31 was constructed in 1965 and comprises approximately 60,000 square feet. Plant 31 includes the following areas:

- Hanger Area
 - small machine shop
- Machine Shop
- Calibrated Equipment Room
 - slop sink
 - benchtop work area
 - tool storage
- Outside 90 Day Storage Area
 - waste storage (Type 1)
 - waste storage (Type 2)
- Outside New Product Staging Area
 - drummed freon
 - ₹ coolinol (fire retardant oil)
- Bleed Air Compressor Room with Gas Burner
 - used to simulate engine bleed air aircraft
- Vacuum Pump Room
- Environmental Test Lab (ESC) Hangar Area
 - component testing
 - vibration tables
- Thermal Chambers (hot, cold, vacuum, vibration)
 - presses
 - lathes
 - slop sinks
- Flame Test Room (Space Simulation)
 - gas burner
 - hood

- Special Test Ammonia Room
 - hydraulic pump (uses DTE oil)
 - miscellaneous storage
 - capped floor drain
 - 55 gallon drum of lube oil
- Bell Jar Room
 - vacuum systems
- Stock Room
 - miscellaneous storage (fittings, valves, etc.)
- Shop Area
 - lathe, drill press, band saw, vices
 - salt machine
 - slop sink
 - floor drain
 - 4 flammable chemical storage cabinets for entire building (small quantities of: jet fuel, antifreeze, ISO foam, freon, MEK, refrigeration oil, stripper, methanol, transmission fluid, loctite, adhesive, acetone, Z-propanol, paint and floor sealer)
- Boiler Room
 - burner
 - condensate floor drains
- Machine Shop
 - drill press, lathe, band saw, vices
 - welding equipment
 - cutoff wheel
- Gas Heaters (outside) for new bleed air system
- New Bleed Air System
 - 2 test cells (with floor drains)
 - control room
 - equipment room compressors, oil pump, 3 "DTE 25" oil drums (for bearing lubrication/cooling)
 - floor drains
- Mezzanine
 - power panel
 - AC system

- compressor
- ductwork for test cells
- miscellaneous storage
- floor drain

Plant 111 was originally built-in in 1970, with new wings constructed in 1986 and has been utilized predominately as office space. Plant 111 consists of four floors, including a basement, and includes the following areas:

- Basement (Original Section)
 - cafeteria
 - mechanical equipment room
 - chillers
 - slop sink
 - 55 gallon drums (condensate from air compressor)
 - floor drains (chiller condensate with oil/water separator)
 - 55 gallon drums (heat transfer fluid)
 - 30 gallon drums (refrigerants-trichloromonofluoromethane)
 - chiller oil
 - 5 gallon centrifugal refrigerant waste oil bucket (Johnson Controls responsible for removal and recycling)
 - transformer (non-PCB)
 - → 2 LPG tanks
 - hot water heaters
 - Foil burners (3 units)
 - computer room
 - generator
 - fuel tank
 - loading bay
 - sanitary lift station
 - drum storage (outside bay)
 - 30W motor oil
 - "extra heavy DTE" oil
 - gasoline storage (5 gallon can)
 - storage room
 - 2 air handler units
 - floor drains
 - 30 gallon drums (asphalt/blacktop sealer)
 - cafeteria
 - kitchen
 - floor drains
 - hoods

- fire suppression (Halon/CO₂)
- storage room
 - CO₂ cylinder storage (connected to fire suppression system)
 - air compressor
 - electrical cable storage
 - miscellaneous parts storage
- facility shop
 - small bench-top repair area
 - miscellaneous parts storage
- telephone rooms
- First Floor (Original Section)
 - computer rooms
 - toner storage (1,1 Dichchlorol-Fluoroethane)
 - waste toner
 - janitorial closet
 - slop sink
- Second and Third Floors (Original Section)
 - office/computer areas
 - vending areas
 - janitor closets
 - slop sinks
 - disinfectants
 - cleaners
- "Penthouse" (Original Section)
 - HVAC units
 - chillers in basement
 - cooling towers
 - air compressor
 - chemicals for cooling tower (water treatment/conditioner)
 - sodium hydroxide (10%)
 - "oxidizing mircrobicide" (Deacide 735)
 - floor drains (condensate)
 - storage of air filters and belts
- First Floor (New Wing)
 - atrium
 - vending area
 - Quality Institute and Training Center (classrooms)
 - office areas

- Second Floor (New Wing)
 - Corporate Technology & Environmental Complex
 - office areas
 - utility closet
 - slop sink

According to interviews with Grumman personnel and a review of Grumman and various agency records, the following storage tanks have been identified:

Tank <u>Number</u>	Type/Use	Tank <u>Size</u>	Tank <u>Contents</u>	Tightness <u>Testing</u>	<u>Status</u>	Remarks	
14-01-1	UST/Boiler	10,000	No. 6	N/A-No. 6	Active		
14-01-2	UST/Boiler	10,000	No. 6	N/A-No. 6	Active		
14-01-3	UST/Generator	275	Diesel	Passed-1993	Active		
14-01-4	UST/Generator	550	Diesel	Passed-2/5/90	Active	w.m	
14-03	UST/Photo Chemicals	2,500	Empty	N/A-Double Walled	Inactive	Permanent Closure Not Scheduled	
14-04	UST/Photo Chemicals	3,000	Empty	N/A-Double Walled	Inactive	Permanent Closure Not Scheduled	
26-01-1	UST/Boiler	20,000	No. 2	N/A-Double Walled	Active		
26-01-2	UŠT/Generator	550	Diesel	Passed-5/31/90	Active		
31-01-1	UST/Boiler	12,000	No. 2	N/A-Double Walled	Active		
111-01-1	UST/Boiler	4,000	No. 2	Passed-5/31/90	Active	6NYCRR Part 613.5 Requires Test in 1995	
111-01-2	UST/Boiler	4,000	No. 2	Passed 6/1/90	Active	6NYCRR Part 613.5 Requires Test in 1995	
111-01-3	UST/Generator	1,000	Diesel	Passed-6/17/93	Active		
111-01-4	AST/Generator	275	Diesel	N/A-AST	Active		

It should be noted that NCDOH records indicate that one of the Plant 111 underground fuel oil tanks (111-01-1) failed a Petrotite test in May, 1990 (Spill #90-01711). It was retested 2 weeks later and passed.

A review of NCDOH Article XI Bulk and Container Storage Registration Sheets for Plant 14 indicated the following materials were permitted to be stored outdoors:

- Lubricating oil
- Pyrocat (hydrocarbons)
- Waste oil
- Mineral spirits
- Hydraulic oil
- Petroleum naptha
- Isopropanol
- Halogenated solvents

The Registration Sheet for Plant 31 also listed an 11,000 gallon capacity aboveground storage tank (Tank No. G45) utilized for liquid nitrogen.

Registration Sheets dated 1988 indicate that Plant 111 stored freon and lubrication oil at one indoor location, and floor wax, stripper and liquid cleanser at another indoor location. Lubricating oil was stored outside.

The July 13, 1994 and July 14, 1994 site inspections revealed that the site is generally level with good drainage and catch basins located throughout. No indications of any stressed vegetation were noted during the site inspections. The Soil Conservation Service classifies the majority of the site as Urban Land with a portion of site as Hempstead Silt Loam. Urban Land is defined as an area with a least 85 percent asphalt, concrete, or other impervious building material, with most of the remaining small areas of soil being well drained Riverhead, Hempstead, or Enfiled soils, or excessively drained Udipsaments. Hempstead Silt Loam is

defined as very deep, well drained solid with slopes of 0 to 3 percent found mostly on plains or along the edges of broad terraces and generally conforming to land-use boundaries. Based on a review of available information, the depth from ground surface to the upper glacial aquifer is approximately 68 feet.

2.3 Hooker Chemical Site

An element related to the delisting of the site is the proximity of the property to the Hooker Chemical/Ruco Polymer NPL site. This site has been on the Federal Superfund list since 1984, and remains active. The site has been the subject of monitoring and investigations intended to identify the extent of contamination and hazard resulting from previous waste disposal practices. A Remedial Investigation and Feasibility Study (RI/FS) has been conducted, with the associated field work completed in February 1990. The RI/FS identified two operable units at the Hooker Chemical site requiring remedial action.

Operable Unit 1 has necessitated the remediation of soil and groundwater contaminated by volatile organic compounds (VOCs) used in various manufacturing processes employed by the facilities on-site. Based upon communication with the EPA, the RI report was approved on December 7, 1992. The associated Feasibility Study was subsequently completed and a Record of Decision and a Proposed Remedial Action Plan was signed on January 28, 1994. Based upon recent communication with the EPA, a unilateral administrative order has been issued and a draft Work Plan is currently being reviewed by the EPA. Until the EPA releases all details concerning Operable Unit 1, it is not possible to fully characterize the extent of off-site impacts.

Operable Unit 2 pertains to a relatively small area of soil contaminated by PCBs resulting from a release of the heat transfer fluid Therminol. The migration of PCBs resulted from on-site runoff and on-site truck traffic. However, the extent of contaminated soil was contained entirely on the Hooker Chemical/Ruco Polymer site. No off-site contamination was identified from Operable Unit 2. Remedial action involving Operable Unit 2 has been completed.

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Until such time as the EPA finalizes its review of all investigation findings and releases all details concerning Operable Unit 1, it is not possible to fully characterize the extent of any potential off-site impacts. However, the Headquarters Complex is located approximately 900 feet lateral (to groundwater flow) of the Hooker Chemical/Ruco Polymer site and is likely removed from any significant adverse conditions which may be present.

3.0 GROUNDWATER SAMPLING DATA

Based upon a review of available monitoring well location maps, one upgradient groundwater monitoring well (GM-1S) and three downgradient groundwater monitoring wells (GM-6S, GM-7S and GM-8S) were identified. Existing analytical sampling data from these wells were utilized to characterize groundwater quality in the vicinity of the site. Figure 3-1 presents the locations of these monitoring wells. The results of the volatile organic and priority pollutant metal analyses are compared to the New York State Department of Health (NYSDOH) drinking water standards on Tables 3-1 and 3-2, respectively.

As indicated on Table 3-1, volatile organics were not detected above the method detection limits. As indicated on Table 3-2, several priority pollutant metals were detected in the groundwater samples obtained from the monitoring wells associated with the site. The only priority pollutant metal detected above the NYSDOH drinking water standard was chromium in sample GM-6S. However, it should be noted that this sample could not be obtained at a turbidity of less than 50 NTUs. As a result, an additional filtered groundwater sample was collected from this location in an effort to remove soil particles prior to laboratory analysis. As indicated in Table 3-2, chromium was not detected above the method detection limit in the filtered samples from GM-6S.

1

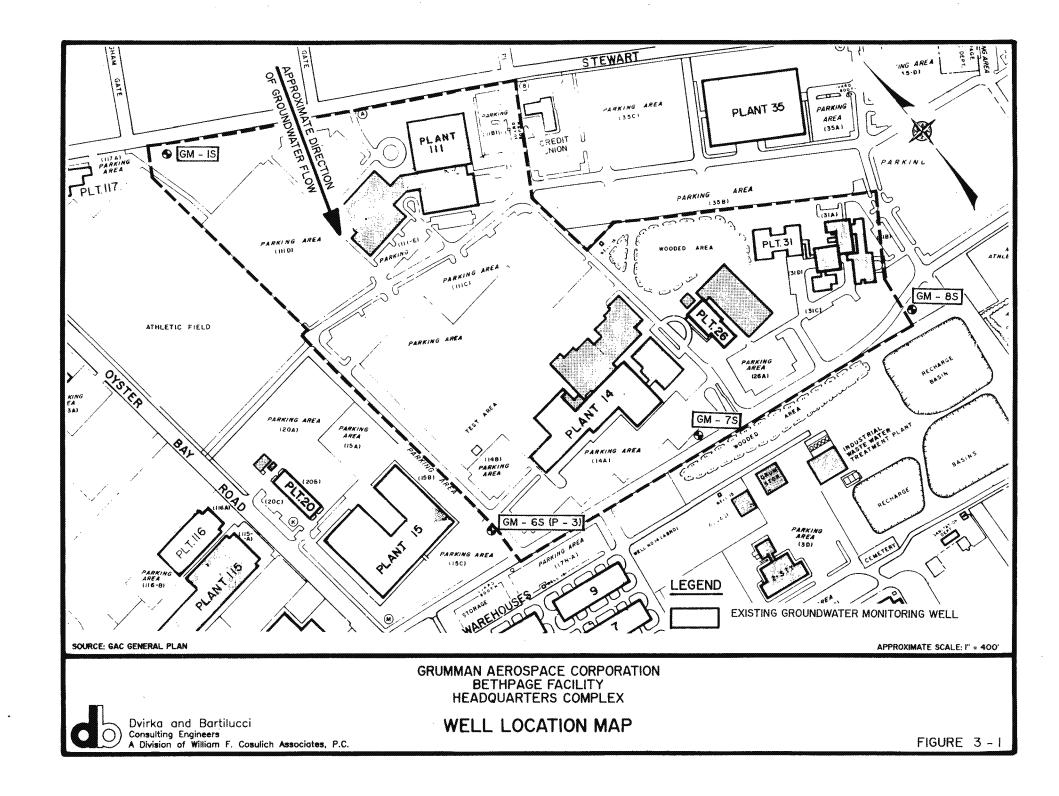


TABLE 3-1 **GRUMMAN AEROSPACE CORPORATION HEADQUARTERS COMPLEX GROUNDWATER SAMPLING VOLATILE ORGANICS**

SAMPLE ID	GM-1S	GM-6S	GM-7S	GM-8S	NYSDOH	
DATE COLLECTED	8/25/93	8/25/93	8/25/93	8/25/93	DRINKING WATER	
DILUTION FACTOR	1	1	1	1	STANDARDS	
Units	(ug/l)	(ug/l)	(ug/l)	(ug/l)		
PARAMETER						
Chloromethane	U	U	U	U	5	
Bromomethane	U	U	U	U	5	
Vinyl chloride	U	U	U	U	2	
Chloroethane	U	U	U	U	. 5	
Methylene chloride	U	υ	U	U	5	
1,1-Dichloroethene	U	υ	U	U	5	
1,1-Dichloroethane	U	υ	U	U	5	
1,2-Dichloroethene (total)	U	U	U	U	5	
Chloroform	U	U	U	U	6+0-101E	
1,2-Dichloroethane	· U	U		U	5	
2-Butanone	U	U	U	U	,	
1,1,1-Trichloroethane	U	U	U	U	5	
Carbon tetrachloride	U	U	U	U	5	
Bromodichloromethane	U	U	U	U	5	
1,2-Dichloropropane	. U	U	U	U	5 5	
cis-1,3-Dichloropropene	U	U	U	U	5	
Trichloroethene	U	U	U	U	5	
Dibromochloromethane	U	U	U	U	100**	
1,1,2-Trichloroethane	U	U	U	U	5	
Benzene	U	U	U	U	5 5 5	
trans-1,3-Dichloropropene	U	U	U	U		
Bromoform	U	U	U	U	100**	
4-Methyl-2-Pentanone v	U	U	U	U	ne-re-air-ar	
2-Hexanone	U	U	U	U	******	
Tetrachloroethene	υ	U	U	2 J	5	
1,1,2,2-Tetrachloroethane	υ	U	U	U	5	
Toluene	U	U	U	U	5	
Chlorobenzene	U	U	U	U	5	
Ethylbenzene	U	U	U	υ	5	
Styrene	U	U	U	U	5	
Xylenes (total)	Ū	Ū	U	υ	5	

QUALIFIERS:

U: Analyzed for but not detected

J: Compound found below detection limit

NOTES:

**: Applies to the sum of trihalomethanes
---: Not established

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TABLE 3-2 GRUMMAN AEROSPACE CORPORATION HEADQUARTERS COMPLEX GROUNDWATER SAMPLING PRIORITY POLLUTANT METALS

SAMPLE ID	GM-1S	GM-1S	GM-6S	GM-6S	GM-7S	GM-7S	GM-8S	GM-8S	NYSDOH
	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	DRINKING WATER
DATE COLLECTED	08/25/93	08/25/93	08/25/93	08/25/93	08/25/93	08/25/93	08/25/93	08/25/93	STANDARDS
UNITS	(ug/l)	(ug/i)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
PARAMETER					•				
Antimony	U	U	U	U	U	U	U	U	~~~
Arsenic	25.6	U	U	U	2.2 B	U	1.8 B	U	50
Beryllium	U	' U	U	U	2.8 B	U	U	U	****
Cadmium	U	U	U	U	2.4 B	2.1 B	3.2 B	U	10
Chromium	25.7	U	166	U	72.2	U	17.8	U	100
Copper	63.1	U	27.9	U	71.9	U	39.3	υ	1000
Lead	32.8	3.3	4.3	1 B	42.7	U	6.5	1.6 B	****
Mercury	0.24	U	U	U	0.5	U	U	U	2
Nickel	U	U	U	U	8.6 B	U	U	υ	*****
Selenium	3.9 BJ	U	U	U	U	U	U	U	10
Silver	U	U	U	U	U	U	U	υ	50
Thallium	U	U	U	U	U	U	U	U	*****
Zinc	57.7	U	31.2	U	71.3	U	46	U	5000

QUALIFIERS:

- J: Estimated value
- U: Analyzed for but not detected
- B: Value less than contract required detection limits but greater than instrument detection limits.

NOTES:

---: Not established

: Value exceeds Drinking Water Standards

4.0 CONCLUSIONS

Based on the July 13, 1994 and July 14, 1994 site inspections and review of local agency and Grumman files, it does not appear that on-site operations have resulted in any chemical and/or fuel spills on-site. Furthermore, an evaluation of groundwater sampling results from both upgradient and downgradient monitoring wells revealed that volatile organics and priority pollutant metals were not detected above the referenced NYSDOH drinking water standards, other than chromium in sample GM-6S which was shown to be attributable to elevated trubidity.

As a result, based upon the above referenced findings, we believe that the information presented in this document is sufficient to support the delisting of the site under New York State regulations and, as such, an appropriate modification to the boundaries of Site 1-30-003A is warranted.

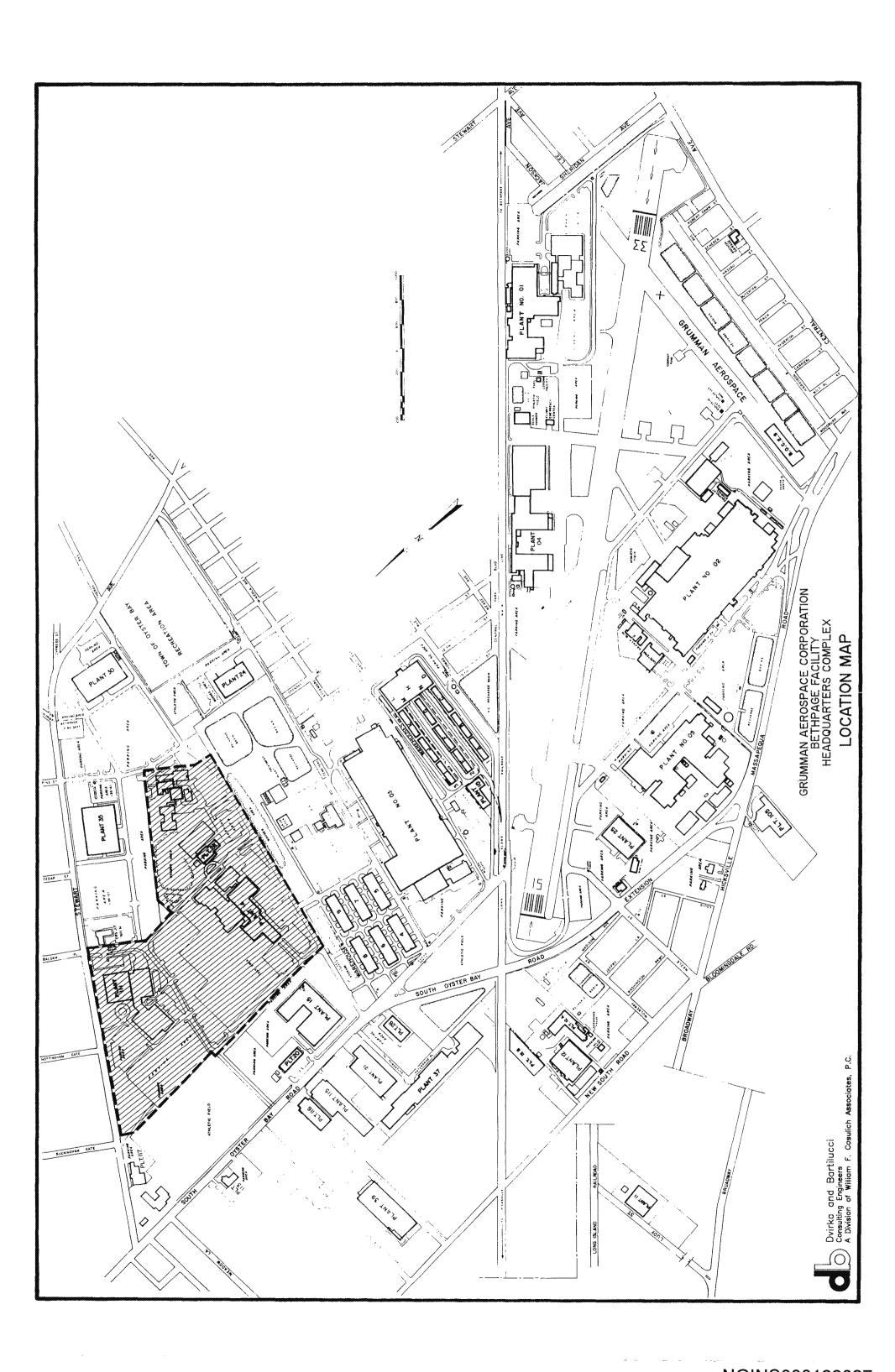
4-1

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	5.0 REFERENCES
	Dvirka and Bartilucci Consulting Engineers, "Application for an RCRA Part B Permit, Grumman Aerospace Corporation - Vol. 1", August 1982.
	Dvirka and Bartilucci Consulting Engineers; "Sterling Center - Draft Generic Environmental Impact Statement - Volume 1A"; June 1990.
	EBASCO, Final Work Plan RI/FS Hooker Chemical/Ruco Polymer Superfund Site, EPA Contract 68-01-7250, Work Assignment No. 186-2443, September 1988.
0	Geraghty & Miller, "Remedial Investigation Report, Grumman Aerospace Corporation, Bethpage, New York - Volume 1"; May 1994.
	Legette, Brashear & Graham, Final Field Operations Plan, August 1989.
	Legette, Brashear & Graham, Focused Feasibility Study for Remediation of Soils Containing Arochlor 1248 for Occidental Chemical Corp., June 1990.
	LKB Aerial Photographs: April 11, 1950; January 20, 1955; January 24, 1957; March 23, 1962; April 11, 1969; April 18, 1972; March 8, 1988.
	United States Department of Agriculture, Soil Conservation Service, Soil Survey of Nassau County, New York, February 1987.
	USEPA, Declaration for Record of Decision, Hooker Chemical/Ruco Polymer Site, Hicksville, Nassau County, New York, September 1990.
	USEPA - Region 2, Proposed Plan Superfund Update Hooker Chemical/Ruco Polymer Site, Hicksville, New York, July 1990.
	USEPA - Region II, Record of Decision (Operable Unit 1), Hooker Chemical/Ruco Polymer Site, Town of Oyster Bay, Nassau County, New York, January 1994.
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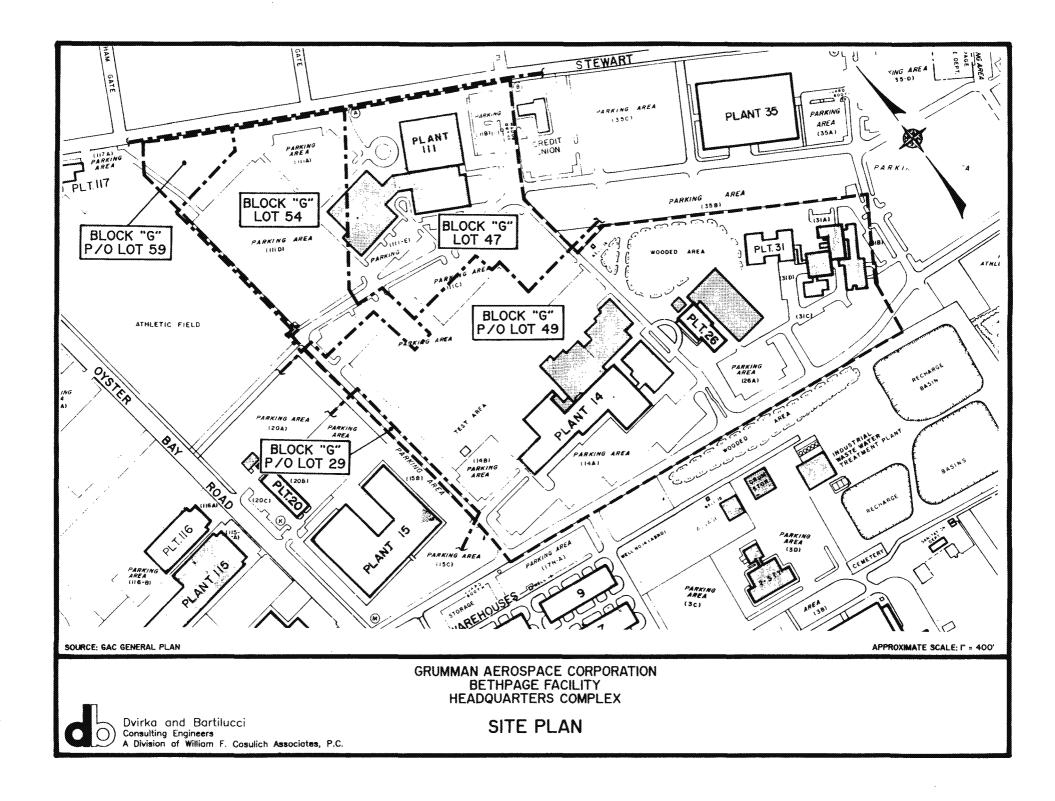
APPENDIX A

LOCATION MAP



APPENDIX B

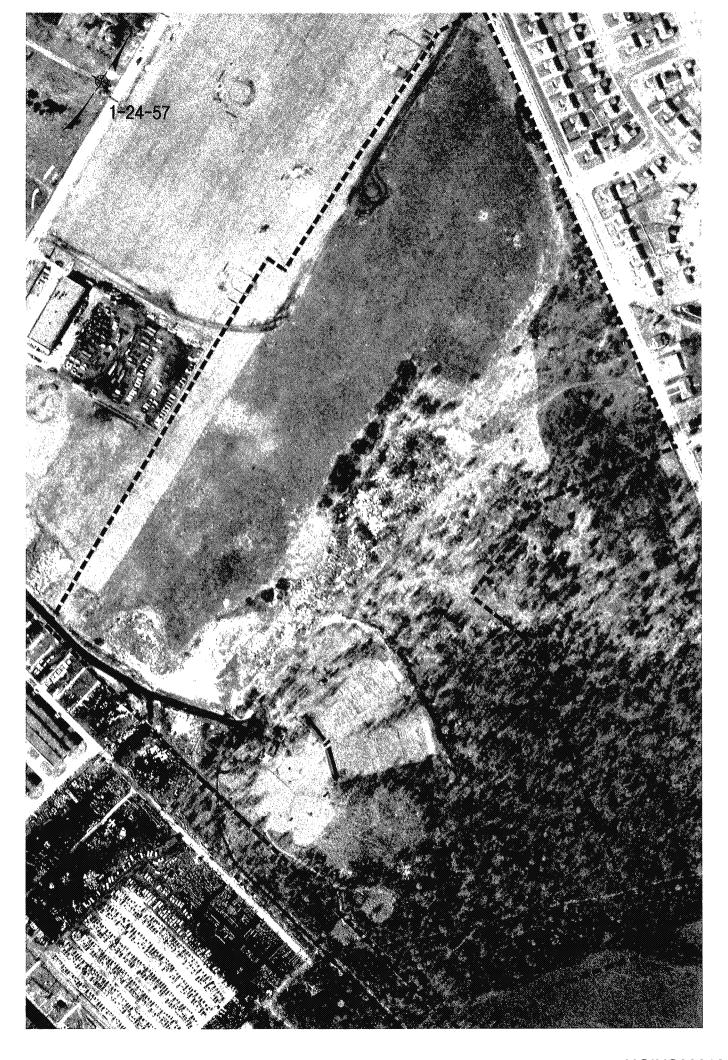
SITE PLAN

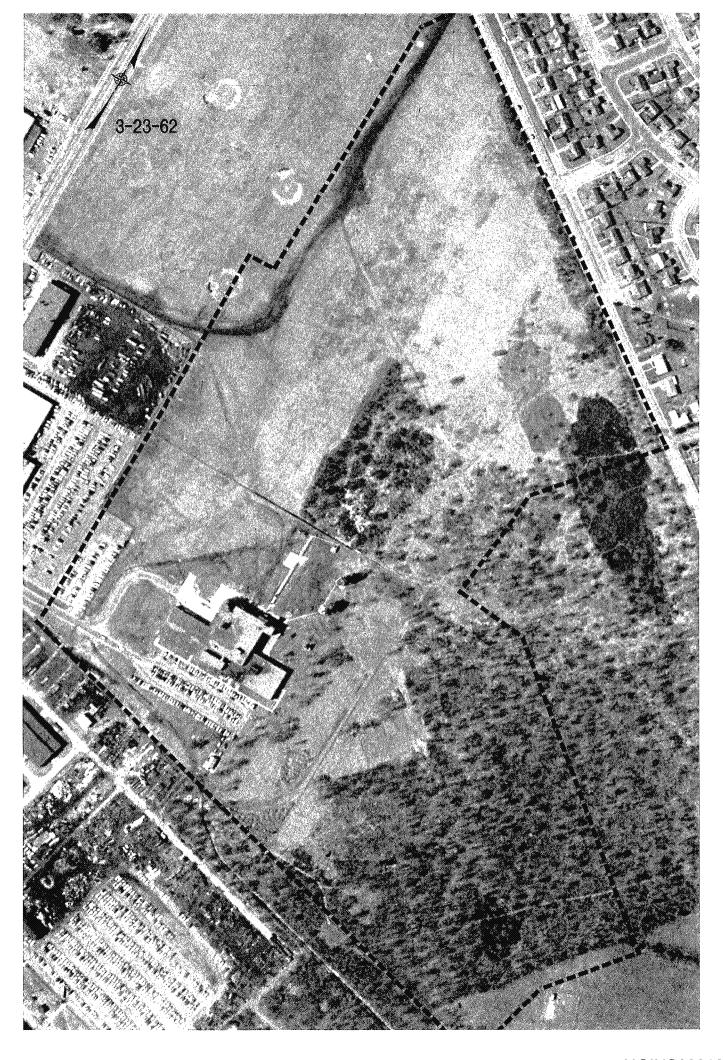


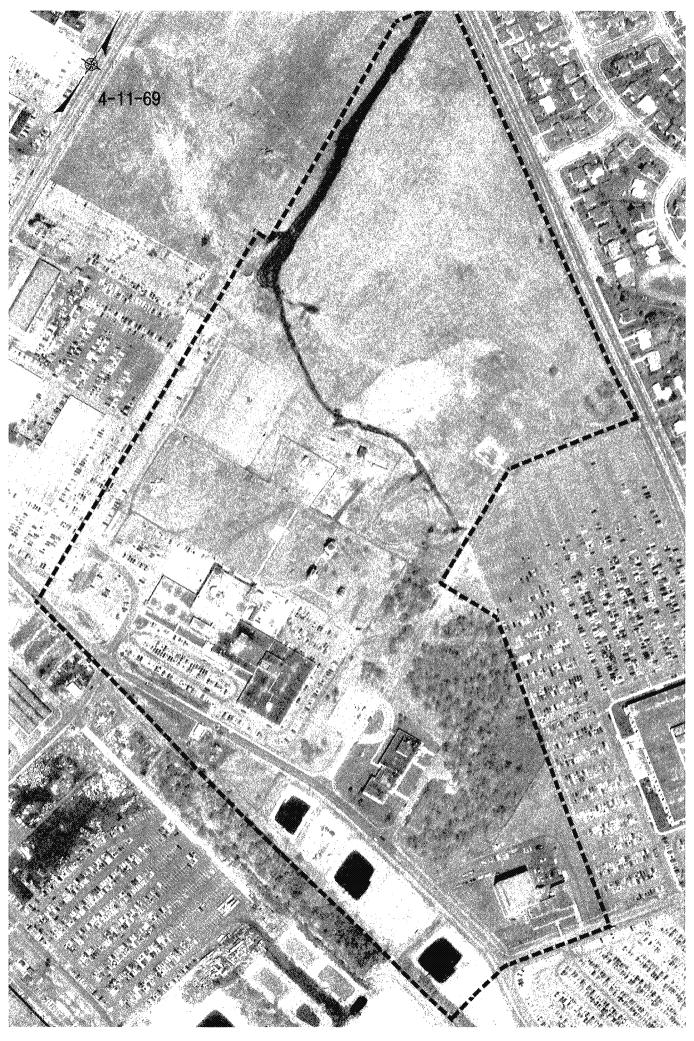
APPENDIX C

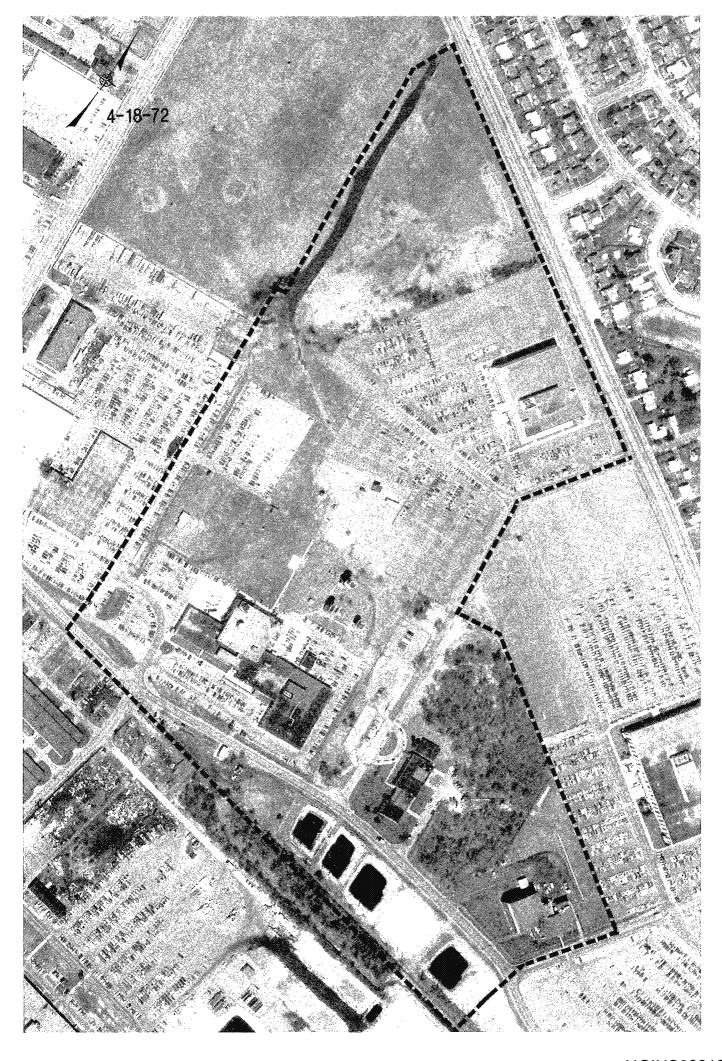
AERIAL PHOTOGRAPHS (1950-1988)

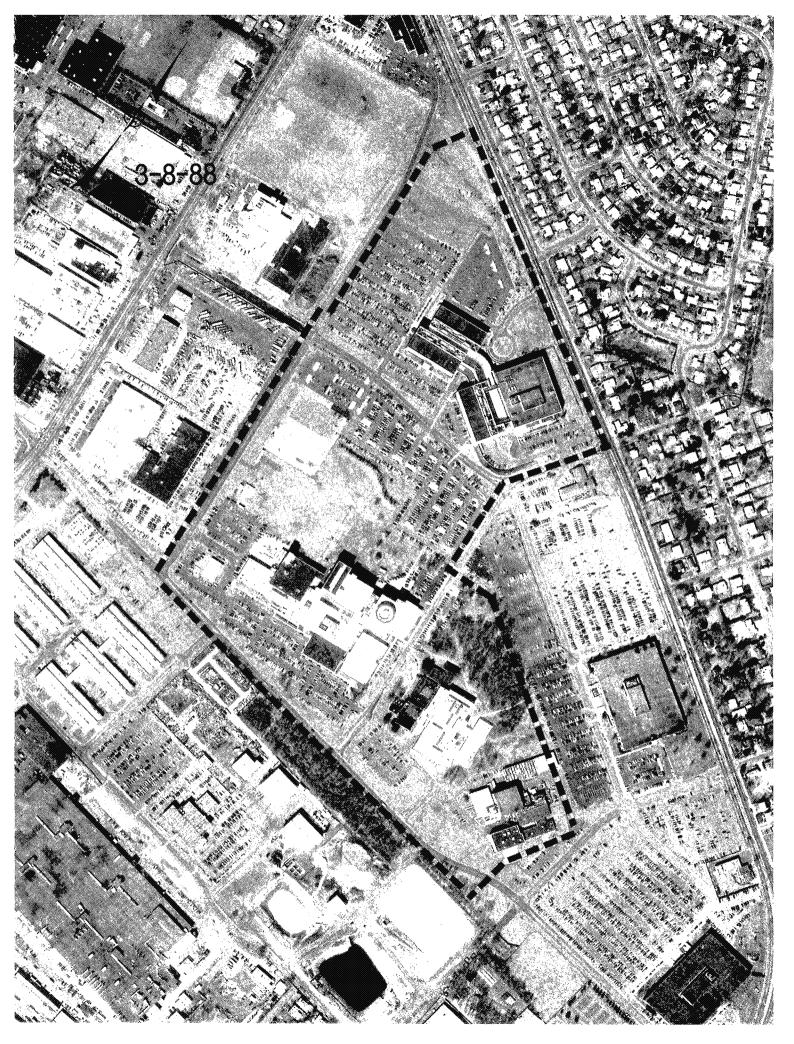












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APPENDIX D

SUPPLEMENTAL INFORMATION

PLANT 14

Table A - 1

GRUMMAN AEROSPACE CORPORATION BETHPAGE COMPLEX EXISTING FLAMMABLE AND COMBUSTIBLE STORAGE TANKS

June 1994

Grumman Tank No.	Location / Use	Contents	Gallons Buried	Gallons Above Ground	Material Of Construction	Date Installed
		- Lake announces and the state of the state	ana marana da papa sa	- Allendra - Allendra de La Calendra - Allendra - Allen		+
04-04-1	Fire Pump House	Diesel		275	Steel	12-31-86
04-04-2	Fire Pump House	Gasoline	275		Steel	12-31-43
04-04-3	Fire Pump House	Gasoline	275		Steel	12-31-43
05-01-1	Generator	Diesel	1000		Steel	12-31-44
05-05-1	Fire Pump House	Diesel	**	275	Steel	12-31-86
05-17-1	Stil - Generator	Diesel	550		FRP	03-02-89
12-02-1	Facilities Fueling	Diesel		275	Steel	12-31-80
12-03-1	Boiler House	No. 4	15000		Steel	12-31-66
12-03-2	Boiler House	No. 4	15000	The State of the S	Steel	12-31-66
12-03-3	Generator	Diesel	•••	275	Steel	12-31-45
12-03-4	Generator	Diesel		275	Steel	12-31-45
12-05-1	Paint Shop - Boiler	No. 2	1000		Steel	12-31-68
14-01-1	ESC - Boiler	No. 6	10000	- ·	Steel	12-31-60
14-01-2	ESC - Boiler	No. 6	10000	CONTRACT	Steel	12-31-60
14-01-3	ESC - Generator	Diesel	275	**	Steel	12-31-60
14-01-4 1404 1404	ESC - Generator	Diesel	550 2500 3000	*** ***	ERP	12-31-84
1403	OUT - OF - SERVICE	EMPTY	3000	-	FRP	1985
15-01-1	Boiler	No. 2	10000		Steel	12-31-58
15-01-4	Generator	Diesel		275	Steel	12-31-78
35-04-1	Boiler	No. 2	3000		Steel	12-31-74
17-20-2	Dravo - Boiler	No. 2	10000		Steel	03-21-94
17-22-3	Generator ,	Diesel		275	Steel	12-31-87
20-01-1	Fuel Depot - Fueling	Diesel	6000	-	FRP	12-31-77
20-01-2	Fuel Depot - Fueling	Gasoline	4000	***	FRP	12-31-77
20-01-3	Fuel Depot - Fueling	Gasolin e	6000	19400	FRP	12-31-77
20-01-6	Steam Jenny	No. 2	aire	275	Steel	12-31-43
20-01-8	Fuel Depot - Oil	Motor Oil	***	275	Steel	12-31-68

LICAT	COUNTY DEPARTMENT OF HEALTH TION FOR A TOXIC OR HAZARDOUS MATERIALS STORAGE FACILITY PERMIT - TANK REGISTRATION TRUCTION SHEETS														on	CE_	3		Facility	7 I.D.
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Action:

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Facility Name

SEE INSTRUCTION SHEETS

APPLICATION FOR A TOXIC OF "MEARDOUS MATERIALS STURAGE MACTURE

GRUMMAN CORPORATION-PLANT 14

PORM 3 - BULK AND CONTAINER STORAGE REGISTRATION:



ABBY J. GREENBERG, M.D.

Ludong 14

COUNTY OF NASSAU DEPARTMENT OF HEALTH

240 OLD COUNTRY ROAD MINEOLA, N.Y. 115014250 23, 1993

Mr. J. Ohlman
Director Corporate Environmental Technology
and Compliance
Mail Stop DO8-GHQ
Grumman Corporation
Bethpage, New York 11714-3580

Re: Article XI Plan for 280 Gallon Waste Chemical Tank at Grumman Corporation, Bethpage NCDH Facility ID. NO. 00069

Dear Mr. Ohlmann:

Your plans for the installation, prints Laboratory Facility for SNTP Tank Installation dated January 11, 1993 have been reviewed and approved by this Department under Article XI of the Nassau County Public Health Ordinance. A set of plans which have been stamped and approved under Article XI is being returned to you with this letter. A Permit to Construct is being issued, under separate cover, to the above referenced facility for the proposed installation. Be advised that the following conditions must be met:

- All stormwater drainage for any outdoor storage area must meet the provision of Section 7.2 of the Article XI Regulations and comply with any pertinent NYSDEC Regulations.
- This Department requires that it be notified by the Engineer five days prior to installation so that an inspector from this Department may be present.
- After the installation has been completed, the tank and piping must be tested for tightness using a method approved by this Department. The Department must be notified a minimum of two days prior to the scheduled tank test.
- The Department must receive a certification certifying that the storage facility was installed in compliance with the approved plans, prior to the issuance of a Permit to Operate. The storage facility is in direct violation of Section 9.b.2)c) of Article XI if it is placed in service without acceptable certification on file with the Department. Any construction deviation or non-conformance to Article XI must be approved in writing by the Department prior to construction.

If you have any questions, please contact us at 571-3838.

John Oeckler, P.E. Public Health Engineer

Bureau of Environmental Engineering

JO:rc Enc.

Grumman Corporation

Bethpage, New York 11714-3580

March 3, 1993 CETC93-159

Nassau County Department of Health 240 Old Country Road Mineola, N.Y. 11501

Attention: John Oeckler

Subject:

STORAGE FACILITY PERMIT APPLICATION FOR "LABORATORY

FACILITY FOR SNTP", GRUMMAN BUILDING 14

Enclosures:

Drawings 014-0299-92-G1, G2, E1 (4 copies) 1)

2) NCDH Form 1 - General Information

NCDH Form 2 - Tank Registration 3)

Dear Mr. Oeckler:

Please find the above enclosures necessary for the subject application. This application is being submitted due to the proposed installation of a 300 gallon aboveground tank for the storage of wastewater containing traces of ferric chloride and acetone.

Should you have any questions, please contact me at (516) 575-2385 or J. Selva at (516) 575-8176.

Very truly yours,

GRUMMAN CORPORATION

J./Ohlmann, P.E., Director

Corporate Environmental Technology

and Compliance

Mail Stop: D08-GHQ

JO/JGS:tla

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If applicable,

IIf tax exempt facility.

Nassau County Department of Health

For Office Use Only

Date Rec'd.

Facility I.D.

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Grumman Corporation

Bethpage, New York 11714-3580

March 28, 1991 FDP - 126

Nassau County Department of Health 240 Old Country Road Mineola, N.Y. 11501-4250

Attention:

Tom Norris

Subject:

UPDATED TANK INFORMATION FOR TANKS 1403 AND 1404

FACILITY 1.D. 000001

Reference:

NCDH Notification of required test for tanks 1403 and 1404, dated

03/13/91

Enclosure:

Form 2

Dear Mr. Norris:

It has come to our attention by the referenced letter that your Department may not have the correct information for the subject tanks. We have enclosed an updated copy of Form 2 indicating that each tank is of double wall fiberglass construction, therefore not requiring a tightness test.

Should you have any questions concerning this subject, please call me at (516) 575-2385 or John Selva at (516) 575-8176.

Very truly yours,

GRUMMAN CORPORATION

J/Ohlmann, P.E., Director

Corporate Environmental Protection

Mail Stop: B08-30

J0:t1a TLA-289

Enclosure

cc: Mike Sekreta (Nassau County Dept. of Health)

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EH 858		1/86						Date Submitted	3/28/91	Page	e <u>1</u> of	_1		-			ļ	D.P.	•

Tyree Brothers Environmental Services, Inc.

208 Route 109, Farmingdale, NY 11735 + Fax: 516-249-3281 + Phone: 516-249-3150

NOVEMBER 11, 1992

NASSAU COUNTY FIRE MARSHAL 899 JERUSALEM AVENUE UNIONDALE, NY 11553

Gentleman:

: -91

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SEI

Enclosed please find a copy of the Tank System Tightness Re for:

GRUMMAN PLANT 14 STEWART AVE BETHPAGE, NY

CONFIRMATION #	30791690
TESTING TECN.	ARMAND KULPA
LICENSE #	295
DATE OF TEST	11-2-92
FACILITY ID #	
DISTRICT	
LOT #	
BLOCK #	
SECTION #	
SPILL #	

**cc: NYSDEC

Sincerely,

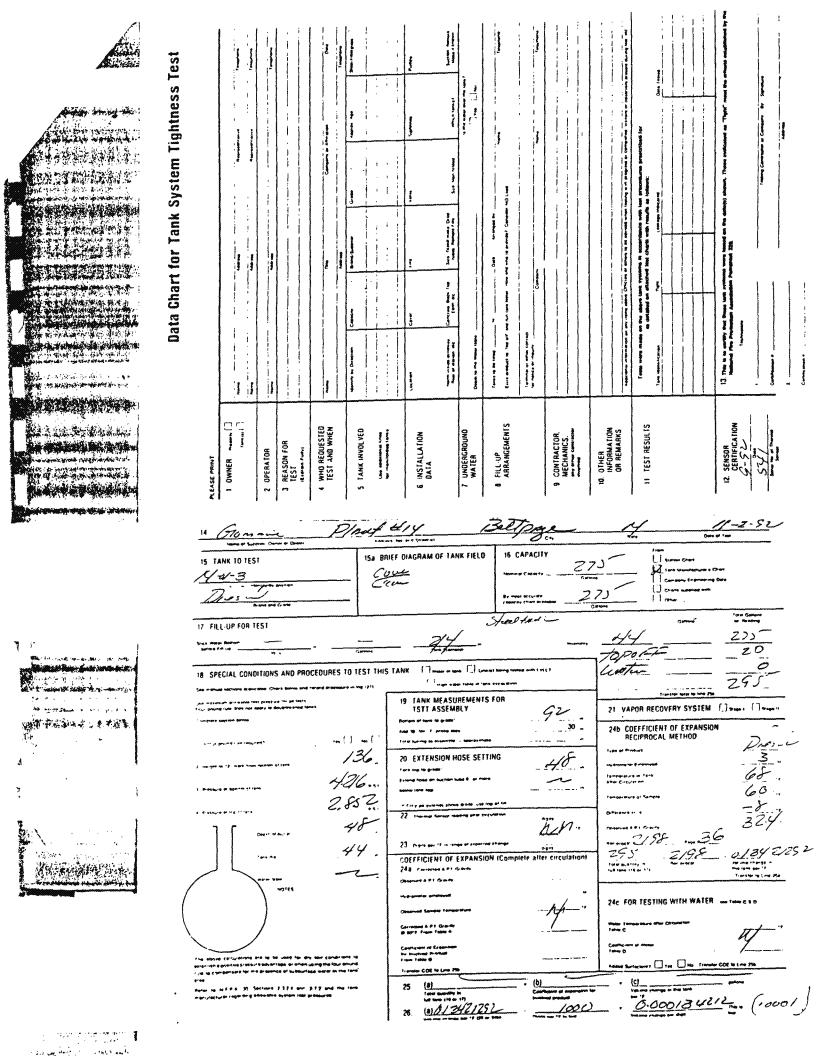
Regina Bendetti Petro-tite Coordinator

Tyree Environmental

NGINS000122052

PLEASE PRINT		
1. OWNER Property	Loumman auesspace Colp.	Ť.
2. OPERATOR	Summer Partin Bethinge N	fo.
3. REASON FOR TEST	Part of Contract	Personal Sections of the Control of
4. WHO REQUESTED TEST AND WHEN	manufact and contract consequents	7000
S. TANK INVOLVED		5/4
the additional times for manifolded tanks		
6. INSTALLATION DATA	Locardon Corrected 411 211 - Inches of the State Annual Color State An	
7. UNDERGROUND WATER	Below .	lek g (
8. FILL-UP ARRANGEMENTS	Toron to be street 2'100 to 11-3-9) case Arrayord by UVI 17605, Eiron provide to food out and toron toron to our ord of the provide to Consider to Co	Para
9. CONTRACTOR MECHANICS.	TYRIE BROS. LAYINJAMENTAL SERVICES, INC.	
10. OTHER INFORMATION OR REMARKS	208 ROUTE 109	\$200 A
11. TEST RESULTS	Tests were made on the above bank systems in accordance with test procedure precribed for as dischard on assessed less charts with results as follows: The standard procedure: The standard proced	工
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[areas	EARMINGDALE, N.Y. 11735	

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P-T Tank Test Data Chart Additional Info	2. Statement  Jan' and product handling system has been tested tight according to the Procision Test Criteria as associated by NFP4 outbication 129 This is not intended to indicate permission of a leas
a volume Change escon rusion of Precision Test gam gnature of Teste	Tank and product handling system has failed the tank lightness less according to the Precision Test Criteria as established by MFPA a publication 239

system to immediately advise state and incell quinorities in the system to immediately advise state and incell quinorities in the anxionness as a result of the indicated favore of this tystem Health Consultants incorporated does not assume any responsibility or liability limits any loss of product to the environment.

Tank C	Januar (Often aton	 	 	~	 
Öste	<b></b>	 	-		 -7

# ENVIRONMENTAL SERVICES, INC.

208 ROUTE 109 . FARMINGDALE, NEW YORK 11735

TK 14-01-4

Nassau County Fire Commission Office of the Fire Marshall 899 Jerusalem Ave. Uniondale, NY

February 3, 1990

GENTLEMAN:

Enclosed please find a copy of a Tank System Tightness Report for:

> Grumman Plant #14 Bethpage, NY

Testing Technician:

License #1. Date of Test:

NCFM I.D #:

TANK #:

Armand Kulpa

GCF-235

2/5/90

369099

14-01-04

cc: NYSDEC ..

# **Data Chart for Tank System Tightness Test**

1. OWNER POPULITY	Grumman Auraspace PO Box 396 Bellesace, NY 11714						
Tanamı 📈	Name		Address	John	SELVA 5	75-8176	
	German	DIANT 14	Address Circles	mee / line	resentative /	Telephone	
2. OPERATOR	136 (1777) STATE OF TOTAL STATE OF T						
3. REASON FOR TEST (Expteen Fully)	CUINER REQUEST :						
4. WHO REQUESTED TEST AND WHEN	Name SANCE XS ABOVE Company or Attitudion						
Totalandestatatatatatatatatatatatatatatatatatata	Identity by Ovecines	Capacity	Brand/Buspier	Grade	Appress. Age	Tolognano Steel/Plagrause	
5. TANK INVOLVED	#AOOT_	550		1 DIESEI		-F/4	
Lise additional innes for menufolded tenks	Building						
6. INSTALLATION DATA	FRONT of Bulloing	Correct	2"	11/4	Siphones	Pumps	
	North made driveway, Rear of station, etc.	Concrese, Stack Top, Earth, etc.	Size, Thehit mase. Orce tubes. Asmote Fills	Size. Menifolded	Which tents?	Sudhen, Remote Make if known	
7. UNDERGROUND WATER	Common to the Wester made Back				is the water over the tank?		
8. FILL-UP ARRANGEMENTS	Tarks to be Midd 8:00 hr. 0/5/90 Date Arranged by TOHAU SOLUM 575-8/76 Telegrisms Extra product to "top off" and run tank tester. How and who to provide? Consider NO Lead.						
	Terminal or other contact for notice or inquery						
CONTRACTOR,	TYREE BROS.						
MECHANICS. any other contractor anyoned	ENVIRONMENTAL SERVICES, INC.  208 ROUTE 109						
	208 ROUTE 109  FARMINGDALE, N.Y. 11735						
10. OTHER	(516) 249-3150						
INFORMATION					2004)**polui000000 ₀₀₀ uuseamakk <u>y</u> useemallineen (2000)**polui00000**polui00000**polui00000**polui00000		
OR REMARKS	Address interments on en	y nems seems. Othereis or o	House to be advected when	testing is in progress of comp	SIEG VIENDIS OF COOSTVOYS	present during test, etc	
11. TEST RESULTS	Tests were made on the above tank systems in apportance with test precedures prescribed for as detailed on attached test charts with results as follows:						
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761	· YKIKANA	Kur pa	JACK SAME THE SAME TH	SPACE CONTRACTOR OF	Company by Signature	Jeans	
Sensi No. of Therms	ENVIRONMENTAL SERVICES, INC.  200 ROUTE 109  FARMINGDALE, N.Y. 11735						
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16. CAPACITY

15a. BRIEF DIAGRAM OF TANK FIELD

15. TANK 10 TEST

	21	Sensor Läfibration//	,	]] IRI	PROSTATIC NISSORE		I LIME MEASUREMEN PECURD TO DOI CA		34	HATHA COMP	IPI NSATHIN	38 NET VOLUME	ACCHMINATED	
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#### P-T Tank Test Data Chart Additional Info

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Signature of Tester	
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#### 2 Statement

Li Tank and product handling system has been tested tight according to the Precision Test Criteria as established by NFPA publication 329 This is not intended to indicate permission of a leak

OR

i : Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by N F P A publication 329 It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system Heath Consultants Incorporated does not assume any responsibility or flability for any loss of product to the environment

Tank Owner/Operator	17.4	
Date	A SECOND	

THERMAL CROSSOVER NUMBER DEG F 0 560 NAME & ADDRESS 2197 GRUMMAN PLANT #14, BETHPAGE, NY 0.254893036 TANK NUMBER #14-01-04 550 DIES. 2/5/90 0 ERR TEMP COMP USE ( 0.0008 | 38 VOL CHNG | 39 ACCUM THERM SEN RE CHANGE +/- COMPUTATION | NET VOL CHNG| 8858 | (c) | (c)*(a FACT) = | PER READING | -0.005 | 0.005 | -7 | 0.001 | 8845 -0.006 .) 8842 | -3 | -0.002 | 0.002 -4 -0.002 8838 -0.003 | -3 8835 -0.002 -0.003 -3 | -0.002 | 0.002 8832 -3 | 8829 -0.002 -0.003 0.003-1 8825 -0.003 | -4 8822 | 0.002 | -0.002 | 8819 | -0.002 | -0.003 8815 | -4 -0.003 | -0.002 0.002 8813 -0.002 | 8810 -3 | -0.002 | .-0.003 1 8807 -3 | -0.002 | 0.002 3304 -3 -0.002 -0.003 -4 0.003 8800 -0.003 -0.003 | 0.003 3796 -4 -2 | -0.003 | 8794 | -0.002 -3 -0.002 0.002 | 0.002 | -3 | -0.002 | 8788 |

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#### PLANT 26

Table A - 1

# GRUMMAN AEROSPACE CORPORATION BETHPAGE COMPLEX EXISTING FLAMMABLE AND COMBUSTIBLE STORAGE TANKS

June 1994

Grumman Tank No.	Location / Use	Contents	Gallons Buried	Gallons Above Ground	Material Of Construction	Date Installed
20-01-10a	Generator	Diesel				ouniod
20-01-11	Fuel Depot - Fueling	Gasoline	-	550	Steel	09-17-92
20-01-12	Fuel Depot - Fueling	Gasoline	20000		FRP	12-31-79
20-01-13	Fuel Depot - Fueling		20000		FRP	12-31-79
20-01-14	Fuel Depot - Pueling	Diesel	10000		FRP	12-31-79
20-01-15	Fuel Depot	No. 2	6000		FRP	12-31-79
20-01-19	Waste Oll	No. 2	1000	see.	FRP	12-31-85
20-01-19		Waste Oil	550		FRP	12-31-82
	Fuel Depot	Motor Oil	***	275	Steel	12-31-68
20-01-21	Fuel Depot	Motor Oil	***	275	Steel	12-31-68
20-03-22	Tire Shop	Waste Oil	**	500	• .	
20-03-23	Tire Shop	Motor Oil			Steel	02-28-92
		MOIO! OII	••	500	Steel	02-28-92
24-01-1	Recieving - Boiler	No. 4	10000		Steel	12-31-66
25-01-1	Boiler	No. 6	10000		<b>-</b>	
25-01-2	Boiler	No. 6	10000		Steel	12-31-86
25-01-3	Generator	Diesel		-	Steel	12-31-86
	Contrator	Diezei	550		Steel	12-31-86
25-03-1	Guard House - Boiler	No. 2		275	Steel	12-31-45
25-05-2	Well No Pump	Diesel	550	<b>35-5</b> .	Steel	09-30-90
25-08-1	Record Ctr - Boiler	No. 2	2000		FRP	12-31-82
26-01-1	Boiler	No. 2	20000			
26-01-2	Generator	Diesel			FRP	12-31-84
		Diasai	550	***	FRP	12-31-85
28-01-1	Boiler	No. 2	4000	omp.	Steel	12-31-64
30-01-1	Boiler	No. 6	15000		<b>0</b> 1 .	
30-01-2	Boiler	No. 6	15000		Steel	12-31-64
30-01-3	Generator	Diesel		-	Steel	12-31-64
		Diesei	550	***	Steel	12-31-64
31-01-1	Boiler	No. 2	12000	. <b>–</b>	FRP.	12-31-85
35-01-1	Boiler	No. 6	15000		·	
35-01-2	Boiler	No. 6	15000	**	Steel	12-31-66
35-01-3	Generator	Diesel		9940	Steel	12-31-66
		Diasai	550	****	Steel	12-31-66

### Larry E. Tyree Company, Inc.

208 Route 109, Farmingdale, NY 11735 · Fax: 516-249-3281 · Phone: 516-249-3150

JULY 3, 1991

NASSAU COUNTY FIRE MARSHAL 899 JERUSALEM AVE UNIONDALE, NY

**GENTLEMEN:** 

ENCLOSED PLEASE FIND A COPY OF A TANK SYSTEM TIGHTNESS REPORT FOR:

GRUMMAN PLANT #26 BETHPAGE, NY

CONFIRMATION#: 1789290

TESTING TEC:

ARMAND KULPA

LICENSE#:

295

DATE OF TEST:

6-27-91

FACILITY ID#:

DISTRICT:

LOT#:

BLOCK#:

SECTION#:

SPILL#:

cc:

NYSDEC

Tyree Environmental Technologies

SINCERLEY,

REGINA COSTANTINI PETRO-TITE COORDINATOR

## Data Chart for Tank System Tightness Test

PLEASE PRINT	O				٠.	
1. OWNER Property Tennes	Firm	nan FX	<u>rospa</u>		esen (altre	Telephone
2. OPERATOR	Gumm	an Ple	int#0	6 Bett	page	Telephone Telephone
3. REASON FOR TEST (Explain Fully)	Biodic	resm	9			
4. WHO REQUESTED TEST AND WHEN	massau	1 Cores	Tu Bi	il Pri	risha	Osie Telephona
5. TANK INVOLVED	Cantil Dock	550	Brand/Supplier	Tarel	Asoroz. Age	F&
Use additional lines for menifolded tanks						
6. INSTALLATION DATA	Location	Corciel	· 411	211	Sphones	Pumpe
	North mode driveway. Rear of station, etc.	Concress, Black Yep. Earth, etc.	Size, Thorid mohe, Orop tubes, Romon Fills	Sto. Herricided	Which cente?	Suction, Rometo, Make d Ingress
7. UNDERGROUND WATER	Depart to the Water table (	Below				
8. FILL-UP ARRANGEMENTS	Tense to be 19948 <u>810</u> Estre product to Top off an	)re 6-37-91 of run tents tester. How and	Date Arranged by	HOLINA H	105·	Tetaphone
	Terminal or either comtable ter nance or interry	Сотрату			Minima and American A	Yeleshana
9. CONTRACTOR, MECHANICS, any other contractor	TYREE D ENVIRONMENTAL S	ERYICES, INC.				
10. OTHER INFORMATION OR REMARKS	FARMINGDALE, (516) 249	NY 11735 3150	sthere to be advessed when to	Ming is in progress or comple	ted. Visitors or observer	to propert during took, 446.
11. TEST RESULTS	Tests were made on (	the above tank system detailed on attached is	est charts with results a			
	Tank #06	01-2 4	b -10	NR GPH	Dete 1	227-91
	leie Test		$=$ $-i\alpha$	R GPH	10	2791
12. SENSOR CERTIFICATION 7-91 T5-54 Served No. of Thermal Served	13. This is to cortify that National Part Protection Tournal and T	d Keepa	TYRE LIVIRONMENTAL 208.80	E BROS POS L SERVICES, INC.	im Co	Lasten
	Corticolor (		EARMINGDALI	E. N.Y. 11728		: <del>Ph</del>

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	3. OPERAT		ame	Addres	15	- Kepre	scntative	l'ositie	on	l elephone l
		N	ame	Dealer,	Mgr. or (	Other	Addr	ess (if differ	ent than location)	Telephone
	4. REASON	POR TEST				490000000000000000000000000000000000000				
	5. TEST REC	QUESTED BY:	Nam	e e e e e e e e e e e e e e e e e e e	announnounnoun by Annes	l'osibo	ñ	Order No	. Billing Add	ress
	6. SPECIAL	INSTRUCTIONS:	**************************************	acoptoconomic and a second	arandiibhiiiiindiin <u>anar</u> es	uncunatitääilistiinen uuna				Annonnonne (filosomy distinguary)
		CTOR OR COMP NIC(S) NAME:	ANY MAKING T	TEST						
	5	K TEST TO BE ITH THIS LINE T	EST?		Yes No			TYPE OF DISPENSER:	•	e
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Data Chart for Tank System Tightness Test delangence orderregisch an eary dams gebong. Officials or athors to be admoss which bosting is in progress or This is to cortily Bed these tests systems were bettered the Protestion Association Periophisa VO. OTHER INFORMATION ON REMARKS 12. SENSOR CERTIFICATION 11. TEST RESULTS 4. WHO REQUESTED TEST AND WHEN S. TAMK INVOLVED INSTALLATION DATA MECHANICS. 3. REASON FOR TEST 2 OPERATOR IS. CAPACITY 158 BRIEF DIAGRAM OF TANK FIELD 15. TANK TO TEST 17. FILL-UP FOR TEST <u>o</u>. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK 560 58 . 30 : 24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD -- U -- U 134. 4157... 282. 46. 62. 45 30 46. 0.25202520 . 0 -24c. FOR TESTING WITH WATER 000022025 .. (.0003

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#### PLANT 31

Table A - 1

# GRUMMAN AEROSPACE CORPORATION BETHPAGE COMPLEX EXISTING FLAMMABLE AND COMBUSTIBLE STORAGE TANKS

June 1994

Grumman Tank No.	Location / Use	Contents	Gallons Buried	Gallons Above Ground	Material Of Construction	Date Installed
00.04.40-					0011011 001011	Delibioiii
20-01-10a	Generator	Diesel		550	Steel	09-17-92
20-01-11	Fuel Depot - Fueling	Gasoline	20000		FRP	12-31-79
20-01-12	Fuel Depot - Fueling	Gasoline	20000		FRP	12-31-79
20-01-13	Fuel Depot - Fueling	Diesel	10000	•••	FRP	12-31-79
20-01-14	Fuel Depot - Boiler	No. 2	6000		FRP	12-31-79
20-01-15	Fuel Depot	No. 2	1000		FRP	12-31-85
20-01-19	Waste Oll	Waste Oil	550		FRP	12-31-82
20-01-20	Fuel Depot	Motor Oil	-	275	Steel	12-31-68
20-01-21	Fuel Depot	Motor Oil	***	275	Steel	12-31-68
20-03-22	Tire Shop	Waste Oil	••	500	Steel	02-28-92
20-03-23	Tire Shop	Motor Oil	****	500	Steel	
	·			000	3(66)	02-28-92
24-01-1	Recieving - Boiler	No. 4	10000		Steel	12-31-66
25-01-1	Boiler	No. 6	10000	***	Steel	12-31-86
25-01-2	Boiler	No. 6	10000		Steel	
25-01-3	Generator	Diesel	550	•••	Steel	12-31-86 12-31-86
25-03-1	Guard House - Boiler	No. 2		275	Steel	12-31-45
25-05-2	Well No Pump	Diesel	550		Steel	09-30-90
25-08-1	Record Ctr - Boiler	No. 2	2000	****	FRP	12-31-82
26-01-1	Boiler	No. 2	20000		500	
26-01-2	Generator	Diesel	550	0000 0000	FRP FRP	12-31-84
			000		rkr	12-31-85
28-01-1	Boiler	No. 2	4000	-	Steel	12-31-64
30-01-1	Boiler	No. 6	15000	- State	Steel	12-31-64
30-01-2	Boiler	No. 6	15000	- Over	Steel	
30-01-3	Generator	Diesel	550		Steel	12-31-64 12-31-64
31-01-1	Boiler	No. 2	12000		FRP,	12-31-85
35-01-1	Boiler	No. 6	45000			
35-01-2	Boiler	No. 6	15000		Steel	12-31-66
35-01-3	Generator	No. 6 Diesel	15000	9-9	Steel	12-31-66
VV V I - V	Colleialdi	Diesei	550	where	Steel	12-31-66

NASSAU COUNTY DEPARTMENT OF HEALTH

#### PLANT 111

Table A - 1

# GRUMMAN AEROSPACE CORPORATION BETHPAGE COMPLEX EXISTING FLAMMABLE AND COMBUSTIBLE STORAGE TANKS

June 1994

Grumman Tank No.	Location / Use	Contents	Gallons Buried	Gallons Above Ground	Material Of Construction	Date Installed
111-01-1	Boiler	No. 2	4000	****	Steel	12-31-70
111-01-2	Boiler	No. 2	4000		Steel	12-31-70
111-01-3	Generator	Diesel	1000		Steel	12-31-70
111-01-4	Generator	Diesel		275	Steel	12-31-84

NASSAU COUNTY DEPARTMENT OF HEALTH

For Office Use Only



AMEY ACZAN PE NCE

#### NASSAU COUNTY DEPARTMENT OF HEALTH 240 OLD COUNTRY ROAD, MINEOLA, N.Y. 11801

February 2, 1989

Grumman Aerospace Corporation Stewart Avenue Mail Stop: 808-30 Bethpage, New York 11714

Attn: Mr. John Selva

Dear Mr. Selva:

SAU CO

LICATION FOR M 3 - BULK AN INSTRUCTION

lity Name

As per our conversation on February 2, 1989 please be advised of the following changes to the storage areas listed on Grumman's Article XI Permit Application:

Plant #	AT PEN	"IT APPLICATION
	Area Listed on Application	Changed To
111	*	distinged 10
	5011	
	S012	311
2	S013	912
٤	S020	913
	5021	920
	S022	921
		922
	S023	923
3	S024	
Mini-Marshaling	S0 <b>30</b>	924
nar sita i 1ng	S031	930
	S032	931
		932
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	S034	024

As you can see, the Prefix "SO" has been changed to the Number "9". This change was made strictly to facilitate entry of the permit information into our computer system. The designations for the listed area can be changed at any time to accommodate any designations that may be required by Grumman.

If you have any questions regarding the above please contact me at 535-2284.

Very truly yours, Michael Sekrota

P.H. Sanitarian II Bureau of Land Resources Management

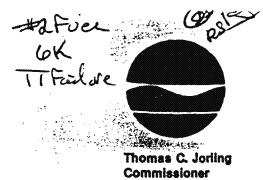
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Reviewed

## New York State Department of Environmental Conservation Building 40—SUNY, Stony Brook, New York 11794

516-751-7900



May 17, 1990

#### CERTIFIFD LEITER-REIURN RECEIPT REQUESTED

Mr. John Selva Gruman Aerospace Corp. BLDG. 111 Bethpage, NY 11714

Re: Spill #90-01711

Dear Mr. Selva:

This office has been informed by Tyree Brothers that one 6,000 gallon underground #2 fuel oil tank failed a Petrotite systems test. In accordance with Article 12 of the New York State Navigation law, I must determine if there has been any harm to the groundwaters of the State. In order for me to make this determination, you have three options:

- Prove that it was not a leaking tank by removing all the piping from the tank and separately Petrotite test the tank. If the tank passes the Petrotiite test, it is a piping leak. The tank may then be abandoned or the piping can be repaired, attached to the tank, and the system Petrotite tested.
- 2. Excavate and remove the tank in the presence of a representative from this office so that an inspection of the tank and the soil can be made. If the tank is sound, and there is no evidence of product loss, nothing further need be done. If there is a problem, proceed as in 3 below.
- 3. Abandon the tank in-place and install several four(4) inch diameter PVC site wells extending ten(10) feet into the groundwater with a screen length of twenty(20) feet, with slot size of .020 inches. The exact location and number of wells will be determined by a representative from this office. These wells must be checked by you or your contractor, with the monitoring data submitted to this office. If no floating/dissolved product appears in the wells for twelve consecutive months, then this office will review the case for possible removal from our active list. If floating/dissolved product appears, recovery must begin immediately.

nt of underground

Please be advised that the in-place abandonment of underground tanks may be prohibited in some areas. You should check with the appropriate local or county authority (health department, fire marshall, environmental control unit) regarding local laws governing the storage of petroleum products.

Please call our office at 516-751-7900 or 516-751-7725 to let me know which option you will select to resolve this problem. If no response is received from you by June 14, 1990, this office will proceed with the installation of observation wells and will seek reimbursement from you in accordance with Article 12 of the New York State Navigation Law.

Very truly yours

Anthony Leung

Assistant Sanitary Engineer

AL:ej

cc: S. Silvers, NCHD

D. Bartow, NCFM

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## Tyree Brothers Environmental Services, Inc.

208 Route 109, Farmingdale, NY 11735 • Fax: 516-249-3281 • Phone: 516-249-3150

MAY 31, 1990

NASSAU COUTY HEALTH DEPARTMENT 240 OLD COUNTRY ROAD MINEOLA, N Y, 11501

hen Muanda

Gentlemen

Enclosed please find a copy of a Tank System Tightness Report for:

GRUMMAN 111-01-1 BETHPAGE, NY

Sincerely,

Sheri Miranda

Testing Tec

License No.
Date of Test:

NCHD#

FACILITY ID#

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TANK

CC: NYSDEC

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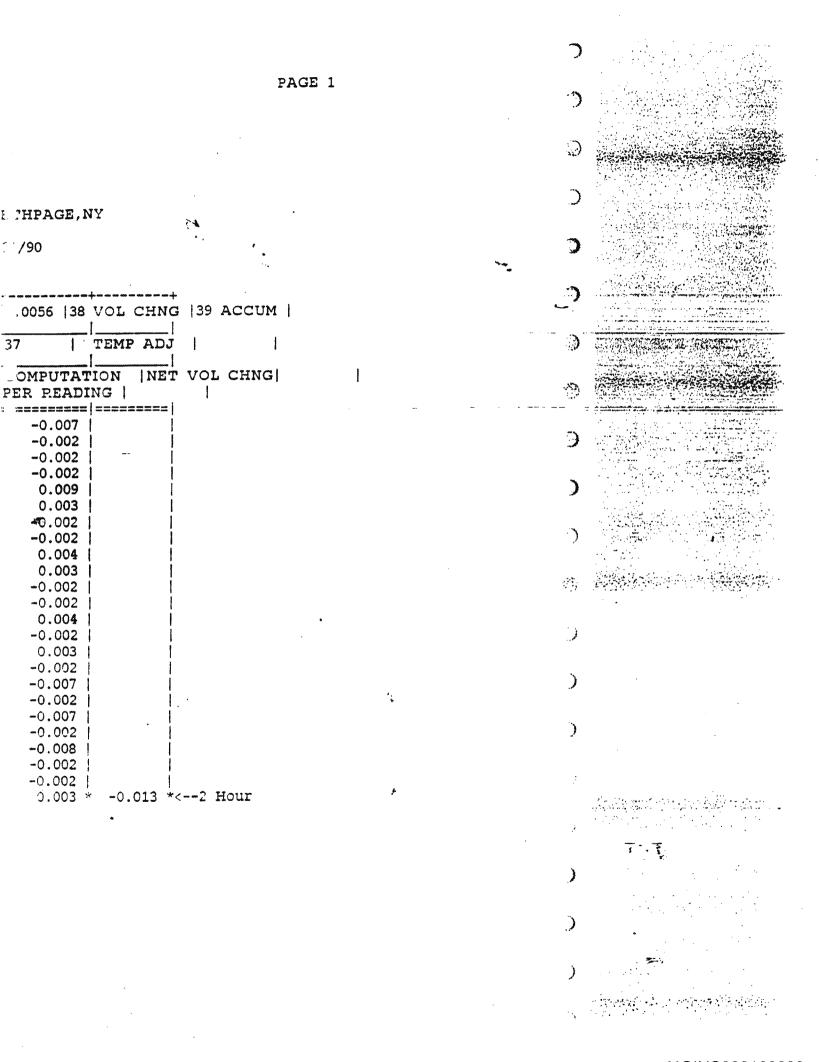
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31-May-90 XXXXXX

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## **Data Chart for Tank System Tightness Test**

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- Committee - Comm	Name		Address	Repre	Bentative	Telephone
2. OPERATOR	Name	gannessan and an American different and property of the foliations	Address	TOTAL THE STANDARD CONTRACTOR OF THE STANDARD CO	ng/thritinegilangangalyangadar-an-distribusion	Telephone
3. REASON FOR TEST	7					
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ZZA POROZNIKA KORONO OSTOSO OSTOS			A331886	aaa-aantannaannaaaaaaaaaaaaaaaaaaaaaaaa		Telephone
5. TANK INVOLVED	Identify by Oirection	Capacity	Brand/Supplier	Grede .	Approx Age	. Steet/Fiberglass
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6. INSTALLATION DATA	Location	Caver	Fills	Vents	Siphonee	Pumps
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7. UNDERGROUND WATER	Depth to the Weter table .		***************************************		Is the water over the	
8. FILL-UP ARRANGEMENTS	Tanks to be filled	hr	Date Arranged by		**************************************	Telegnane
	Terminal or other contact for notice or inquiry	Compen	V	Na	ART G	Telephone
9. CONTRACTOR. MECHANICS, any other contractor involved						
10. OTHER INFORMATION						
OR REMARKS	Additional information on a	ny items above Officials o	r others to be advised when let	Bring is in progress or complet	led Visitors or Observ	ers present during test, etc
11. TEST RESULTS			me in accordance with ter test charts with results a		for	de epin kalandi ili ili ili ili ili ili ili ili ili i
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12. SENSOR CERTIFICATION	13. This is to certify the National Fire Protec Technician	tion Association Pem	were tested on the dete(s) phiet 328.	) shown. Those indicated		he criteria established by
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TIME (24 hr )	length of like if needed ) .		Beginning of Reading	Level to which Restored	Before Reading	After Reading	Product Recovered (+)	Inermal Sensor Reading	rower -	(c) = (a) = Expansion = Contraction =	Expansion (+) or Contraction (+) #33xV) — #37(T)	Al Low Level compu- Change per Hour INFPA Criterial
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#### P-T Tank Test Data Chart Additional Info

· Net Volume Change	at Conclusion of Precision Testgph
Signature of Tester	
Date	adinanaka adinaggaran pistopandipundi kasiali di assarbanna panjugituk di karingularan di najugituk ana di naj

2. Statement:

[] Tank and product handling system has been tested tight according to the Precision Test Criteria as established by N.F.P.A. publication 329. This is not intended to indicate permission of a leak.

)B

Tank and product handling system has falled the tank tightness test according to the Precision Test Criteria as established by N.F.P.A. publication 329.

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system. Heath Consultants Incorporated does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator	
5-4-	

### Tyree Brothers Environmental Services, Inc.

208 Route 109, Farmingdale, NY 11735 • Fax: 516-249-3281 • Phone: 516-249-3150

JUNE 1, 1990

NASSAU COUNTY HEALTH DEPARTMENT 240 OLD COUNTRY ROAD MINEOLA, NEW YORK, 11501

Gentlemen

Enclosed please find a copy of a Tank System Tightness Report for:

GRUMMAN 111-01-2 BETHPAGE, NY

Steen Miranda

Sheri Miranda

Testing Tec

License No.

Date of Test: NCHD#

FACILITY #

ARMAND KULPA

GCF-295

6/1/90

152H90T09

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CC: NYSDEC

Tyree
Environmental
Technologies

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### **Data Chart for Tank System Tightness Test**

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## **Data Chart for Tank System Tightness Test**

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1. OWNER Property	Name									
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2. OPERATOR	Name		Address			Terephone				
3. REASON FOR	The Communication of the Commu	o o o o o o o o o o o o o o o o o o o		occidentes del PRPA de la como del popular altra cara popular a produce	<u></u>					
TEST										
(Explain Fully)				anno prominente de la company de la comp						
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6. INSTALLATION	•	· <b>†</b>								
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7. UNDERGROUND	Rear of station, etc.	Earth, etc.	tubes. Remote fills	Size. Manifolded	Which tents?	Make if known				
VATER	Depth to the Water table				□ Yee □ No	••				
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8. FILL-UP	Tanks to be filled hr Date Arranged by Name Telephone									
ARRANGEMENTS	Extra product to "top off" and run tank letter. How and who to provide? Consider NO Lead.									
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OR REMARKS	Additional information on a	ny itema above Officials of	Others to be advised when tel	HAVE IN IN BUSINESS OF COMIS	reted Visitors or Observers or	SSECTE CHIND LOSS SIC				
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11. TEST RESULTS			test charte with results a							
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28. DATE	, Record details of setting up and rumming test (Use full	29. Reading	eqbne12 on! na			uci M luate	33 Product Replaced (-)	35	36. Change	37 Computation	Temperature Adjustment	
TIME (24 hr )	length of line if needed )	No -	Beginning of Reading	Level to which Restored	Before Reading	After Reading	Product Recovered (+)	Inermal Sensor Reading	lower - lower -	(Cl • (a) • Expansion • Contraction -	Volume Minus Expansion (*) or Contraction (-) (-) (-) (-)	At Low Level compute Change per Hour (NFPA criteria)
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#### P-T Tank Test Data Chart Additional Info

1 · Net Vo	olume Change	st Conclusion	of Precision Test.	gph
Signal	ure of Tester		workstonistical little representation and the second secon	***************************************
Date				

2. Statement

[] Tank and product handling system has been tested tight according to the Precision Test Criteria as established by N.F.P.A. publication 329. This is not intended to indicate permission of a leak.

OR

Tank and product handling system has failed the tank tightness test according to the Precision Test Criteria as established by N.F.P.A. publication 329.

It is the responsibility of the owner and/or operator of this system to immediately advise state and local authorities of any implied hazard and the possibility of any reportable pollution to the environment as a result of the indicated failure of this system. Heath Consultants Incorporated does not assume any responsibility or liability for any loss of product to the environment.

Tank Owner/Operator	
Date	an alternative contraction the Man, same a goal thrown or one constitution to the determinant



TR# 93109

445 Brook Avenue, Deer Park, New York 11729

(516) 586-4900 • NYC (718) 204-4993

FAX (516) 586-4920

June 18, 1993

Mr. Scott Engmann
Facilities Engineer
Grumman Corporate Operations
Mail Stop D08-GHQ
Bethpage, New York 11714-3586

loc.: Tank # 111-01-3

Plant # 111

Bethpage, New York

Dear Mr. Engmann:

The underground storage tank(s) listed below have been tested in accordance to the Precision Test Criteria established by N.F.P.A. publication 329. Following is an outline of events which occurred:

TANKAGE	TYPE OF TEST	RESULT	DATE	
suction line	Petro Tite	pass @ +.001	06/11/93	
return line	Petro Tite	pass @ +.002	06/11/93	
1,000 gallon dsl. gen.	Petro initial system	pass @015	06/17/93	

As required by law, a copy of these reports have been forwarded to the following authorities with an "X" placed next to their name:

X Industrial Division CONF#: 16891690
Nassau County Fire Marshal

899 Jerusalem Avenue - P.O. Box 128 Uniondale, New York 11553

Nassau County Department of Health

240 Old Country Road ID#: Mineola, NY 11501 CONF#: ATTN.: B.L.R.M. - Room 500 FNCK#:

Ms. Cathy Gibbons
Oil Spills Dept. SPILL#:
N.Y.S.D.E.C.

SUNY @ Stony Brook - Bldg. 40 Stony Brook, NY 11790

We will contact you prior to 06/17/95, which is the next required test date.

Scott Schuck

Yours truly,

Tank Testing Manager



### Fenley & Nicol Co. Inc.

/NER Property T	Name BE	THEADE, NO	Address 11714 -	Trànc, M/ 3586 Repri	TESTOP DE	08 - GHQ, Tolephone			
. OPERATOR	GRUMM)	IN SC	Address  Address	Repre	SINGT# 11	Telephone			
I. REASON FOR TEST (Explain Fully)	Name - Address  N.C.F.M. CODE								
. WHO REQUESTED TEST AND WHEN	Name Title Company or Affiliation Date  Address Telephone								
. TANK INVOLVED	Identify by Directing	Capacity / JOSO	Address Brand/Supplier	Disc/	Approx Age ZDY	Steel diberglass			
Use additional lines for manifolded tanks									
INSTALLATION DATA	EDUTH OF Plant # 1111	COVER	Fills 1-2 Direct	vents 1-2"vent	Siphones	Feed + Re To Dise			
	North inside driveway, Rear of station, etc	Concrete, Black Too, Earth, etc	Size. Titefill make, Orop tubes, Remote Fills	Size, Manifolded	Which tanks?	Suction, Remote 4 64 Make if known			
UNDERGROUND WATER	Depth to the Water table	Isela 7	Boto OF	2 TANK	is the water over the tan	92-			
FILL-UP ARRANGEMENTS	Tanks to be filledhrDate Arranged by Name Telephone  Extra product to 'top off' and run tank tester. How and who to provide? Consider NO Lead.								
	Terminel or other contact for notice or inquiry	Compar	7	<u> </u>	lame	Telephone			
ONTRACTOR, INTECHANICS, any other contractor involved	FY Smoot ALG Deep Mak NY 11729								
OTHER INFORMATION OR REMARKS	Scott Matter  JUG# 91219  EON FF 168 916 90  TR# 93109  Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test. etc.								
TEST RESULTS	Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows:								
	Trank Identification  Dicail Plan  Loop tol	# 111 2 36 4	Leakage Indik	;med	Date Te	77.43			
	tanh#111-0	1-3			,				
ENSOR ERTIFICATION	13. This is to certify the National Fire Protection 1.	net these tank systems section Association Per Internation Matter EN		n) shown. Those indicate niey & Nie Co. Inc.					
No. of Thermat     Sensor	Certification #	Proceduration of the second	45 Brook Avenue, De	<u> </u>	ndinundarningrikkei elenetruski desettipte sesetti prominingsom				
	Certification #	4	a brook Avenue, De	iei rain, New IUIA I	·· ** - (310) 300-43				